



भारत का राजपत्र

The Gazette of India

प्राधिकार से प्रकाशित

PUBLISHED BY AUTHORITY

सं० 36]

नई दिल्ली, शनिवार, सितम्बर 7, 1991 (भाद्रपद 16, 1913)

No. 36]

NEW DELHI, SATURDAY, SEPTEMBER 7, 1991 (BHADRA 16, 1913)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके
[Separate paging is given to this Part in order that it may be filed as a separate compilation]

भाग III—खण्ड 2
[PART III—SECTION 2]

पेटेन्ट कार्यालय द्वारा जारी की गई पेटेन्टों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस
[Notifications and Notices Issued by the Patent Office relating to Patents and Designs]

THE PATENT OFFICE
PATENTS AND DESIGNS
Calcutta, the 7th September, 1991

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The States of Andhra Pradesh, Karnataka, Kerala, Tamilnadu, and the Union Territories of Pondicherry, Laccadive, Minicoy and Aminidivi Islands

Telegraphic address "PATENTOFIS".

Patent Office (Head Office),
"NIZAM PALACE", 2nd M.S.O. Bldg.,
5th, 6th and 7th Floor,
234/4, Acharya Jagdish Bose Road,
Calcutta-700 020

Rest of India.

Telegraphic address "PATENTS".

All applications, notices, statements or other documents or any fees required by the Patents Act, 1970 or the Patents Rules, 1972 will be received only at the appropriate Offices of the Patent Office.

Fees .—The fees may either be paid in cash or may be sent by Money Order or Postal Order, payable to the Controller at the appropriate Offices or by Bank Draft or Cheque, payable to the Controller drawn on a scheduled bank at the place where the appropriate office is situated.

पेटेंट कार्यालय

एक स्वतंत्र अभिकर्त्त्व

कलकत्ता, दिनांक 7 सितम्बर 1991

पेटेंट कार्यालय के कार्यालयों के पाते एवं क्षेत्राधिकार

पेटेंट कार्यालय का प्रधान कार्यालय कलकत्ता में स्थित है तथा भारतीय वित्तीय एवं मद्रास में इसके शास्त्र कार्यालय हैं, जिनके प्रादेशिक क्षेत्राधिकार जोन के आधार पर निम्न रूप में प्रदर्शित हैं :—

पेटेंट कार्यालय शास्त्र, टोडी हस्टेट,
तीसरा तल, लोट्टर परेल (पश्चिम),
भारत-400 013

गुजरात, महाराष्ट्र तथा मध्य प्रदेश राज्य क्षेत्र एवं संघ शासित क्षेत्र गोआ,
दमन तथा दिल्ली एवं दादरा और नगर हवेली।

तार पता—“पेटेंटफिल्स”

पेटेंट कार्यालय शास्त्र,
इकाई सं० 401 से 405, तीसरा तल,
नगरपालिका बाजार भवन,
सरस्वती भारत, करोल बाग,
नई दिल्ली-110 005

हरियाणा, हिमाचल प्रदेश, जम्मू तथा कश्मीर, पंजाब, राजस्थान तथा
उत्तर प्रदेश राज्य क्षेत्रों एवं संघ शासित क्षेत्र चंडीगढ़ तथा विल्हेल्मी।

तार पता—“पेटेंटोफिल्स”

पेटेंट कार्यालय शास्त्र,
61, वालाजाह रोड,
मद्रास-600 002

आंध्र प्रदेश, कर्नाटक, केरल, तमिलनाडु राज्य क्षेत्र एवं संघ शासित क्षेत्र
पाण्डिचेरी, लक्षद्वीप, मिनिकॉर्ट तथा एमिनिविवि ब्रिप।

तार पता—“पेटेंटोफिल्स”

पेटेंट कार्यालय (प्रधान कार्यालय),
निजाम पैलेस, द्वितीय अमुतस्तीय कार्यालय
मवन 5, 6 तथा 7 वर्ग तल,
234/4, आचार्य जगदीश बोस रोड,
कलकत्ता-700 020

भारत का वावशेष क्षेत्र

तार पता—“पेटेंटस”

पेटेंट अधिनियम, 1970 या पेटेंट नियम, 1972 में अपेक्षित सभी
आवेदन-पत्र, सूचनाएँ, विवरण या अन्य प्रलेख पेटेंट कार्यालय के केवल
उपयुक्त कार्यालय में ही प्राप्त किए जाएंगे।

शुल्क : — शुल्कों की अवधारी या सो नकद की जाएगी अथवा उपयुक्त
कार्यालय में नियन्त्रक को मुगालान योग्य घनावेश अथवा ढाक आवेदन या जड़ा
उपयुक्त कार्यालय स्थित है, उस स्थान के अनुसूचित शैक से नियन्त्रक को
मुगालान योग्य शैक द्वापर्य अथवा शैक द्वारा की जा सकती है।

CORRIGENDA

In the Gazette of India, Part-III, Section 2 :—

- (i) dated the 12th January, 1991 on Page No. 39 in respect of Patent No. 167937 (1101/Del/86), in the inventor's Column insert the name of third inventor as "SWATANTRA PRAKASH".
- (ii) dated the 15th June, 1991 in Page No. 678, read Bombay before "A" in the beginning of Column 1.

In the Gazette of India, Part III Section 2 dated 6th July, 1991 under the Heading.

Application for Patents filed at the Head Office, 234/4, Acharya Jagadish Bose Road, Calcutta-20.

AT Page 740

Agmnt No. 411/Cal/91

For Westinghouse Electric Corporation. Improvements in or relating to electrical circuit breaker operating handle block.

read Thomson Consumer Electronics, Inc., "Wide Screen Television".

The dates shown in the crescent brackets are the dates claimed Under Section 135, of the Patents Act, 1970.

The 26th July, 1991

558/Cal/91 Erema Engineering Recycling Maschinen Und Anlagen Gesellschaft m.b.H. Filtration device for the thermoplastic synthetic material.

559/Cal/91 Isover Saint-Gobain. Phenolic resin, process for preparing the resin and composition for sizing mineral fibres containing this resin.

560/Cal/91 Degussa Aktiengesellschaft. A method of granulating mixtures of resorcinol and silicic acid, granulates obtained thereby and use thereof.

The 29th July, 1991

561/Cal/91 Himont Incorporated. Elastoplastic polyolefin compositions.

562/Cal/91 Siemens Aktiengesellschaft. Configuration for sealing off a duct gap between a housing wall and a shaft.

563/Cal/91 Akiengesellschaft Kuhnle, Kopp & Kausch. Compressor range stabilization.

564/Cal/91 Sanyo Electric Co. Ltd. Control system for absorption refrigerator.

The 30th July 1991

565/Cal/91 Pinkerton Generator Inc. High efficiency electrical machine pinkerton generator Inc. (Convention dated 30th July, 1990; No. 59, 977/90; Australia).

The 31st July, 1991

566/Cal/91 William B. Stuhler. Variable speed bicycle automatic torque converter transmission.

567/Cal/91 Phillips Petroleum Company. Process for preparing poly (arylene Sulfide) composition.

568/Cal/91 Atochem North America, Inc. Functionalised peroxides for polymerization reactions.

569/Cal/91 Susil Kumar Ganguly. Device for generating wind power by improved propelling system.

570/Cal/91 Alan Edward Heywood. Improvements in or relating to catalysts and getter systems. (Convention date 31st July, 1990; No. 9016787.5; U.K.).

571/Cal/91 Alan Edward Heywood. Improvements in or relating to self-generating catalysts. (Convention date 31st July, 1990; No. 9016788.3; U.K.)

The 1st August, 1991

572/Cal/91 Fritz Stahlecker and Hans Stahlecker. A spinning machine.

573/Cal/91 Fritz Stahlecker and Hans Stahlecker. A spinning machine.

574/Cal/91 Fritz Stahlecker and Hans Stahlecker. A spinning machine.

575/Cal/91 Fritz Stahlecker and Hans Stahlecker. A spinning machine system.

576/Cal/91 Massey-Ferguson Services N.V. Planetary gear units. (Convention date 15th August, 1990; No. 9017921.9; U.K.).

577/Cal/91 E.I. Du Pont De Nemours and Company. Ternary Azeotropic compositions of 43-10 Mee ($CF_3CHFCF_2CF_3$) and trans 1, 2-dichloroethylene with methanol or ethanol.

578/Cal/91 E.I. Du Pont De Nemours and Company. Binary Azeotropic compositions of ($CF_3CFCHFCF_2CF_3$) with methanol or ethanol or isopropanol.

579/Cal/91 Engelhard Corporation. Animal feed containing selected montmorillonite clay as additive and method for selecting the clay.

580/Cal/91 PA Consulting services. Improvements in or relating to fluorescent assays.

581/Cal/91 General Electric Company. Modulator/Demodulator for compatible high definition television system.

582/Cal/91 Luminis Pty. Ltd. A fluid from control device. [Divisional dated 13th April, 1988].

The 2nd August, 1991

583/Cal/91 Shin Sumino. Mobile plant.

584/Cal/91 Koyo Sangyo Co Limited. Laminated material and process for manufacturing the same.

585/Cal/91 Zimpro Passavant Environmental systems, Inc. A method of wet oxidation of aqueous waste.

586/Cal/91 Samsung Electron Devices Co. Ltd. Cathode ray tube provided with a bar code.

APPLICATIONS FOR PATENTS FILED AT THE PATENT OFFICE BRANCH 61 WALLAJAH ROAD, MADRAS-600 002

The 15th July, 1991

532/Mas/91 Tirupattur Damodara Rao. Improved automatic backwash granular media water filter.

533/Mas/91 Norcott Pty. Ltd. Variable geometry cluster drill. (16th July, 1990; Australia).

534/Mas/91 Deenadhayalan Jeganathan. A device for eliminating lapping of fibres at the top arm of ring spinning frames.

The 16th July, 1991

535/Mas/91 Separacor, Ing. Process for preparing optically active glycidate esters. (Divisional to P.A. No. 796/Mas/89).

536/Mas/91 Maschinenfabrik Rieter AG. Dosage method and device for the delivery of determinable quantities of fibre flocks per unit of time.

537/Mas/91 Takeda Chemical Industries Ltd. A process for producing a tetrahydropyrimidine compound. (Divisional to P.A. No. 769/Mas/89).

538/Mas/91 Takeda Chemical Industries Ltd. A process for producing a tetrahydropyrimidine compound. (Divisional to P.A. No. 769/Mas/89).

539/Mas/91 Eniricerche S.p.A. Process for preparing tertiary alkyl ethers and apparatus for reactive distillation.

The 17th July, 1991

540/Mas/91 Joseph John Britto. A novel compact device of a two wheeler and a television.

541/Mas/91 A. Lakshminarayana. Cooking gas stove.

542/Mas/91 The BOC Group Pic. Storage and transportation of goods under controlled atmospheres. (19th July, 1990; U.K.).

543/Mas/91 John Crane Inc. Spiral groove seal arrangement for high vapor-pressure liquids.

544/Mas/91 John Crane Inc. Non-contacting gap-type seal having a ring with a patterned microdam seal face.

545/Mas/91 Framatome. Inflatable and deflatable cushion and extension jack equipped with such a cushion.

546/Mas/91 Akebono Brake Industry Co., Ltd. Chamfering press-ing machine.

The 18th July, 1991

547/Mas/91 Joseph John Britto. A novel automobile three wheeler provided with air-conditioning unit.

548/Mas/91 Pfister GmbH. Gravimetric metering apparatus for pourable materials.

549/Mas/91 Mannesmann Aktiengesellschaft. Casting system for the introduction of a melt.

The 19th July, 1991

550/Mas/91 James A Rhodes. Air control system providing health-ful enclosed environment.

The 22nd July, 1991

551/Mas/91 D. Sethu Rao. Instrument and Special Electrodes for Direct Determination of solids not fat in milk.

552/Mas/91 Maschinenfabrik Rieter AG. A method and a device for introducing a slubbing into a running drafting arrangement of a textile machine, especially of a ring spinning machine.

553/Mas/91 Westspur Investment Limited. A process for the preparation of S(+)-6-methoxy-methyl-2-naphthalene-acetic acid.

554/Mas/91 Logan Farm Equipment Co. Apparatus and method for harvesting agricultural produce.

The 24th July, 1991

555/Mas/91 Hilmont Incorporated. Dynamically partially crosslinked thermoplastic elastomer containing polybutene-1.

556/Mas/91 Asturiana De Zinc S.A. Installation for removing the zinc deposited by electrolysis on aluminium plates.

557/Mas/91 Merlin Gerin. Electrical circuit breaker with rotating arc and self-extinguishing expansion.

The 25th July, 1991

558/Mas/91 (1) Sarma Sundaram & (2) Muhammed Abdul Naseer. A process for the preparation of water soluble non-drying epoxy additive for glass fibre sizing formulations.

559/Mas/91 (1) Govindasamy Ragupathi; (2) Pichan Prabhasan-kar; (3) Dr. Kalpathy Sivaraman Annapoorani and (4) Dr. Chenniappan Damodaran. Elisa—Dipstick test kit for C. Collinus.

560/Mas/91 Rahul Basu and Dev. P. Basu. Improvements in solar reflectors.

561/Mas/91 Rahul Basu. Batteryless Radio Receiver.

562/Mas/91 Bisofa Watch Company Ltd. Slimline quartz watch.

563/Mas/91 Chevron Research and Technology Company. Use of modified 5-7 pore molecular sieves for isomerization of hydrocarbons.

564/Mas/91 Chevron Research and Technology Company. Wax isomerization using catalyst of specific pore geometry.

565/Mas/91 Maschinenfabrik Rieter AG. A method for cleaning cotton fibers and guiding of the clean fiber stream and device therefor.

566/Mas/91 Maschinenfabrik Rieter AG. Blowroom line.

567/Mas/91 Ki Sang LEE; Song Ja KIM; Hyok LEE and Kwang Un LEE. Adhesive roll tape cutting apparatus.

568/Mas/91 Hampshire Advisory and Technical Services Limited. A process for producing a non-toxic solution. (September 23, 1988; United Kingdom) (Divisional to Patent Application No. 706/Mas/89).

ALTERATION OF DATE UNDER SEC. 16

1. 169098 : Ante-dated to November 14, 1986.
(974/Cal/88)

2. 169099 : Ante-dated to November 14, 1986.
(975/Cal/88)

3. 169100 : Ante-dated to November 14, 1986.
(727/Cal/89)

4. 169124 : Ante-dated to December 20, 1985.
(214/Del/88)

5. 169125 : Ante-dated to November 05, 1986.
(215/Del/88)

6. 169126 : Ante-dated to July 08, 1985.
(274/Del/88)

7. 169127 : Ante-dated to September 12, 1985.
(441/Del/88)

8. 169128 : Ante-dated to January 22, 1985.
(631/Del/87)

9. 169129 : Ante-dated to March 06, 1986.
(942/Del/88)

10. 169136 : Ante-dated to May 12, 1986.
(624/Del/88)

11. 169137 : Ante-dated to March 06, 1986.
(943/Del/88)

12. 169139 : Ante-dated to December 16, 1985.
(726/Del/86)

OPPOSITION PROCEEDINGS

The opposition entered by M/s. Kirloskar Brothers Ltd., in respect of Patent Application No. 158185 has been dismissed and the patent has been ordered to be sealed.

The opposition entered by M/s. Kirloskar Brothers Ltd., in respect of Patent Application No. 158183 has been dismissed and the patent has been ordered to be sealed.

An opposition has been entered by chloride Industries Limited to the grant of a Patent on application No. 168231 made by Sachindra Prosad Saha.

158579 158580 158581 158582 158583 158584 158585 158586 158587
158588 158589 158590

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158591 158592 158593 158594 158595 158596 158597 158598 158599
158600 158601 158602 158603 158604 158605 158606 158607 158608
158609 158610 158611 158612 158613

PRINTED SPECIFICATION CHALLAN

A limited number of Printed Copies of the undernoted Specifications are available for sale from the Patent Office, Calcutta and its three Branches at Bombay, Madras and Delhi at Rs. 2 (Rupees two only) per copy.

(1)

158561 158562 158563 158564 158565 158566 158567 158568 158569
158570 158671 158572 158573 158574 158575 158576 158577 158578

PATENT SEALED

167036 167156 167161 167163 167165 167351 167356 167359 167361
167371 167375 167383 167386 167387 167388 167389 167390 167391
167394 167421 167422 167425 167427 167431 167432 167433 167434
167435 167436 167467 167510 167535 167539 167542 167554 167555
167557 167558 167559 167571 167581 167582

CAL—15
DEL—04
MAS—18
BOM—05

COMMERCIAL WORKING OF PATENTED INVENTIONS**ELECT. ENGG. LIST NO. II**

The following patents in the field of Electrical Engineering Industry are not being commercially worked in India as admitted by patentees in the statements filed by them under Section 146(2) of the Patents Act, 1970 in respect of calendar year 1989 generally on account of want of request for licences to work the patented invention, persons who are interested to work the said patents commercially may contact the Patentees for the grant of a license for the purpose.

Patent No.	Date of Patent	Name & Address of the Patentee	Title of the Invention
1	2	3	4
149716	2-8-1979	Brakes India Ltd, Padi, Madras-600 050, Tamil Nadu, India.	An electric Switch for direct current circuits.
163291	2-11-1984	Charbonnages De France, 9, Avenue Percier-75008, Paris, France.	A direct view remote control apparatus for remote control of machine.
162562	18-9-1984	Cogent Limited Temple court, 11 Queen Victoria Street, London EC4N, 4 TP, England.	Electrochemical cell.
161734	2-8-1984	Devidson & Co, Ltd, Sirocco Engg. Works, Bridge End, Belfast BT 5 4 AG, Northern Ireland.	Induction sensor.
163315	19-3-1985	Dengensha Manufacturing Company Limited 23-1, Mosugata 1-Chome, Tama-ku, Kawasaki-Shi, Kangawa, Japan.	A control device for controlling constant current in resistance welding machines.
159245	30-1-1984	Hoechst Aktiengesellschaft, D-6230 Frankfurt am Main 80, Federal Republic of Germany.	A process for the preparation of a catalytically active electrode material for preparation of a catalytically active electrode material for oxygen consuming electrodes.
163784	15-1-1985	—do—	An electrolytic cell for carrying out a liquid electrolysis process.
163785	15-1-1985	—do—	An electrolytic cell for carrying out a liquid electrolysis process.
163786	15-1-1985	—do—	An electrolytic cell for carrying out a liquid electrolysis process.

1	2	3	4
163017	14-8-1985	The Indian Space Research Organisation, Deptt of space, F Block, Cauvery Bhavan, District Office Road, Bangalore-560002, Karnataka.	An electro-Optical Instrument to measure agronomical parameters.
154717	5-9-1981	(Dr) Jose Thaikattil University Health Centre, Calicut University P.O.—673635, Kerala State.	A holder for electric lamps.
158715	17-11-1983	(Dr) Jose Thaikattil, Physician, University Health Centre, Calicut University P.O.—Kerala State, India.	A tamper proof seal for electric lamps.
159772	16-6-1984	Kerala State Electronics Development Corp Ltd, Keltron House, Vellayambalam, Trivandrum 695001, Kerala, India.	A magnedyne encoder.
163368	23-2-1985	Kerala State Electronics Development Corp Ltd, Keltron House, Vellayambalam, Trivandrum-695001, Kerala, India.	An inductive card reader.
162986	9-11-1984	Kerr McGee Chemical Corp, Kerr McGee Center, Oklahoma city, Oklahoma, U.S.A.	An improved method of preparing electrolytic manganese dioxide.
162395	18-9-1984	Mlnitronics Pty. Ltd, 200 Harbord Road, Brookvale, New South Wales, Commonwealth of Australia.	A Switching regulator.
162394	6-9-1984	Mitsubishi Denki Kabushike kaisha 2-3, Marunouchi, 2-Chome, Chiyoda-ku, Tokyo, Japan.	A control apparatus for an AC elevator.
162985	9-10-1984	Norman Louis Weinberg 95 Chasewood Lane, East Amherst, NY-14051, U.S.A.	Improved method for the electrosynthesis of ethylene glycol.
162333	1-9-1984	Rosemount Inc, 12001, West 78th Street, Eden Prairie, Minnesota 55344, U.S.A.	A transducer for converting electric signal to pneumatic signal.
162397	18-10-1984	Sumitemo Electric Industries Ltd, 15, Kitahama, 5-Chome, Higashi-Ku, Osaka, Japan.	Composite over head stranded conductor.
158759	30-1-1984	ISOVOLTA Osterreichische isolierstoffwerke AG, ISOVOLTA, A-2351 Wiener Neudorf, Austria.	A process for the preparation of an electrical insulating material.
156755	22-3-1983	MITSUBISHI DENKI, KABUSHIKI KAISHA, 2-3 Manunouchi 2 Chome, Chiyodaku Tokyo 100, Japan.	A system for producing a signal when the phase relation between two composite signals derived from voltage and current detected from an electric power system satisfies a predetermined condition.
156946	12-4-1983	MITSUBISII DENKI KABUSIIKI KAISHA, 2-3 Marunouchi, 2 Chome, Chiyodaku, Tokyo 100, Japan.	Distance delay.
159394	12-3-1985	Vipin Chamsey Shah, 1552 Napier Tower, Jabalpur, Madhya Pradesh, India.	A multifilament electric lamp.
150458	9-2-1982	Ahmedabad Textile Industry's Research Association, P.O. Polytechnic, Ahmedabad-380015, Gujarat, India.	Beat-up Mechanism for looms particularly used in wave line Weaving machine.
153812	30-9-1981	—do—	An Apparatus for propelling weft thread in a travelling wave shedding loom.
154709	10-6-1982	—do—	Shed Forming device for machine weaving looms.

1	2	3	4
155756	30-8-1982	Ahmedabad Textile Industry's Research Association, P.O. Polytechnic. Ahmedabad-380015, Gujarat, India.	Weft replenishing mechanism for travelling wave Shedding looms.
155925	29-8-1983	—do—	An improved top roller cleaner for textile machinery in particular for ring frames, fly frames and draw frames.
157585	6-12-1984	—do—	Improvements in or relating to a bobbin for ring frames used in spinning mills.
160028	29-1-1986	—do—	Device for reducing noise in the Course of direct stem injection into liquors for heating thereof.
161595	16-12-1985	—do—	A mechanism for absorbing the extra momentum of the moving parts in checking of shuttle on automatic/non-automatic under pick/over pick looms.
161596	16-12-1985	—do—	A mechanism for absorbing the extra momentum of the moving parts in picking an automatic/non automatic overpick looms.
150256	14-8-1979	Son Aruna Prabhakar Deodhar, 865, Snehabandha, Bhandarkar Institute Road, Pune-411 004, State of Maharashtra, India.	A zone reader for biological assays.
160618	21-6-1985	Balcke—Durr A.G. Homberger Str. 2, 4030 Ratingen 1, West Germany.	An improved cleaning device for regenerative heat exchangers.
160619	21-6-1985	—do—	An improved regenerative heat exchanger.
163689	18-8-1986	Bhelchandra Ramchandra Bedekar, 65/7, Erandawana Law College, Road, Pune-411004, State of Maharashtra, India.	An oven for baking chapatis, khakaraas, papad, thepla, tortillas and the like.
149290	9-7-1980	CEMINDIA COMPANY LTD. Steelcrete House, Dinshaw Vachha Road, Bombay-400 020 Maharashtra, India.	Pile and linear assembly process for the manufacture thereof and method of piling employing such assembly.
146820	19-11-1976	Hindustan Lever Limited, 165-166 Hindustan Lever House, Backbay Reclamation, Bombay-400020, Maharashtra, India.	Toothbrushes.
147562	19-1-1978	—do—	An improved device, for pouring panable materials such as liquids slurries and colloids from a container.
149288	7-3-1979	KABELSCHLEPP GmbH, Naruebrirber/Str. 75, D-5900. Siegen 1, West Germany.	Improvements in supply line support ducting.
152929	11-5-1981	—do—	Energy transmission conduct.
152930	11-5-1981	—do—	Energy transmission conduct.
157625	11-4-1984	—do—	An energy line transmission chain.
161589	29-1-1986	—do—	Guide chain for guiding energy lines.
161591	11-11-1985	Kambian Valapil Radhakrishnan Nair, Flat No. 2/9, Bldg No. A 2/1 Jeevan Beema Nagar, Borivli (W), Bombay-400 103.	A process for making hollow metal sections.

1	2	3	4
157145	1-7-1983	KURT KRONENBERG, Muhlenbergweg 10, D-5485, Sinzig, WEST GERMANY.	Closing device for flexible containers.
164062	6-5-1986	Maharaj Krishen Mehta, 23, Manson Belvedere, 107, M.K. Road, Bombay-20, Maharashtra, India.	An apparatus for filling small containers with powdered or particulate materials.
162040	19-2-1986	Ratilal Narottamdas Panchal, 21 A, Laxmi Industrial Estate, Sankarrao Naram Path, Off Fergusson Road, Lower Parel, Bombay-13.	Permanent bolt fastener.
150919	16-6-1978	Sandvik Aktiebolag, Fack S-811 01, Sandviken 1, Sweden.	Bearing means for rotary drill bits.
154583	26-3-1981	SANDVIK AKTIEBOLAG, Fack S-811 01, Sandviken 1, Sweden	Drill tool.
153097	10-11-1981	Santrade Limited, P.O. box 321, CH-6002, Linern, Switzerland.	Cutting tool.
160643	9-8-1984	Santrade Limited, Alpenqual 12, 6002, Switzerland.	Apparatus for the production of granulates.
163143	12-11-1984	Santrade Limited, P.O. Box 321, CH-6002, Luzern, Switzerland.	A blank of compound body for making cutting tools and a method of making the blank compound body.
158207	6-9-1984	Vijay Govind Gokhale, Bombay Chemicals Pvt. Ltd., 129, Mahatma Gandhi Road, Bombay-400 023, Maharashtra, India.	A pre fabricated composite door or window frame.
162031	4-3-1986	Shri Vijay Govind Gokhale, of M/s Bombay Chemicals Pvt. Ltd., 129, Mahatma Gandhi Road, Bombay-400 023, Maharashtra, India.	A protective fibreglass support device for a burning type mosquito repellent coil.
163690	17-10-1986	V.I.P. Industries Limited, V.I.P House, 88C Old Prabhadevi Road, Bombay-400 025.	A suitcase with fastening device for pilfer proof fastening thereof to a post rod or plank.
161091	1-6-1984	Alfred Reader & CO Ltd., Invicta Works, Teston, Maidstone Kent ME18 SAW-England.	A ball and the method of manufactured thereof.
162806	1-8-1985	Arokiasamy John Berchman, B-7, III Cross I Main Road, Ramalinga Nagar, Trichy-620003, Tamil Nadu.	Multi-Stage water wave operated air compressor.
162135	20-7-1984	Arthur Ernest Bishop, 17, Burton Street, Mosman New South Wales, Commonwealth of Australia.	A machine for cutting the teeth of a rock.
149541	30-1-1980	Ashok Leyland Ltd, No. 19 Rajaji Salai, Madras-600 001, Tamil Nadu.	A pneumatic throttle retarder linkage assembly of overspeed limiting device means for motor vehicle.
164621	28-2-1985	Atlas Air Australia Pty Ltd., Atlas Air House, 27 Bridge Street, Pymble, New South Wales, Australia 2073.	A humidifier.
148580	28-9-1978	Brakes India Limited, Padi, Madras-600 050, Tamil Nadu India.	A brake fluid reservoir of a hydraulic braking system.
148974	28-9-1979	—do—	A self operative device for adjusting the brake lining with respect to the brake drum of a breaking system.
149241	5-4-1980	—do—	A pedal mechanism for a hydraulic brake system.

1	2	3	4
149236	16-6-1980	Brakes India Limited Padi, Madras-600 050, Tamil Nadu India	An improved cam brake
153829	28-10-1982	—do—	S' cam brake
156335	19-10-1982	—do—	A dust cover for wheel cylinders of vehicle hydraulic brake.
156547	8-4-1983	Carborundum Universal Ltd., 28, Rajaji Salai, Madras-600 001, Tamil Nadu, India.	A process for manufacturing refractory caserroles and refractory caserroles made thereby
162727	21-9-1984	Davidson & Company Ltd, Sirocco Engineering Works, Bridge End Belfast BTS 4 AG, Northern Ireland	A rotary regenerative air preheater having means for sealing between relatively rotatable parts
160705	18-4-1984	Dayco Products Inc, 333 West First Street, Dayton Ohio 45402, USA.	A polymeric article having a fabric layer.
163609	17-1-1985	Dobson Park Industries Plc, Dobson Park House, Colwick, Industrial Estate, Nottingham, England.	A valve assembly for use in controlling plurality of fluid operated functions.
163204	27-11-1984	DRG (UK) Limited, 1 Red Cliffe Street, Bristol, BS 88 70Y, England	An open sided rail car tippler
164624	4-4-1985	—do—	Stacker-reclaimer
147675	3-4-1978	Erodhula Satyanarayana 13-2-13 Moses House, Maharanipeta, Visakhapatnam-530 002, Andhra Pradesh	Improvements in or relating to stoves.
161954	18-7-1984	Esmil B V P O -Box 7811, 1008 AA, Amsterdam, The Netherlands	Apparatus for carrying out physical and/or chemical processes, more specifically a heat exchanger of the continuous type.
162052	21-7-1984	Forsac Valves Ltd, 25 Charlotte Square, Edinburgh, EH2 4EZ, U.K.	A ball valve assembly for pipeline.
163545	19-12-1984	GTE Products Corporation, 100 West 10th Street, Wilmington, Delaware, U.S.A.	A fastener for affixing parts to a channeled structural member
164154	8-2-1985	Habley Medical Technology Incorporated, 23181 Verdugo Drive, Unit 105-13, Laguna Hills, California 92653, U.S.A.	A sphincter suitable for implantation so as to embrace a patient's urethra for occluding and opening the urethra and controlling the passage of urine there through
162762	27-9-1984	Hockiki Kabushiki Kaisha, 10-43 Kamiosaki 2-Chome, Shinagawa-Ku, Tokyo, Japan.	Scattered Light type smoke detector.
158724	13-3-1984	Hoechst Aktiengesellschaft, D-6230 Frankfurt am Main 80, Federal Republic of Germany	Apparatus for making red phosphorus
163014	26-11-1984	Honda Giken Kogyo Kabushiki Kaisha, No 27-8, 6, Chome, Jingumae, Shibuya-Ku Tokyo Japan	Replaceable gang head machine tool
164147	14-2-1985	Indag Gesellschaft Fur Industriebedarf mbH Rudolf-Wild-Strasse 4, 6900, Heidelberg-Eppelheim, Fed Republic of Germany.	Pressure-resistant beverage container

1	2	3	4
150973	25-8-1981	India Pistons Ltd., Huzur Gardens, Sembiam, Madras-600 001, Tamil Nadu, India.	A method of manufacturing compression rings and compression rings manufactured thereby.
164374	4-4-1985	Interlok Limited, 5th Floor, 95 St. George's Terrace, Perth, Western Australia, Australia.	Storage tanks.
160246	5-4-1984	I.S.C. Smelting Limited, 6 St. James's Square, London, SW 1Y 4 LD, England.	An apparatus for dispersion of liquids in gases.
160594	3-4-1984	Izumi MASAHIKO, 13-14, 2-Chome, Nishimagonie, Oota-Ku, Tokyo, Japan	Apparatus for cleaning the inside of a room.
163631	28-3-1984	J & D Oram Limited 243 Heath Road, Leighton Buzzard, Bedfordshire, England	An adjustable lamp assemblies.
154718	5-9-1981	(Dr) Jose Thaikattil, University Health Centre, Calicut, University P O, Kerala State.	Comb.
164407	28-3-1985	Kemira OY, Malminakatu 30, SF-00100 Helsinki, Finland.	Apparatus for manufacturing a concentrated distillate by the Vaporization and distillation of a liquid reaction mixture.
160314	24-2-1984	Kinergy Corporation, 4821 Jennings Lane, Louisville, Kentucky 40218, U.S.A.	A vibratory Sifter screen unit.
160426	27-8-1984	Kunlan George, Thikkinkadu Bangalo, Areplachi P O (Via) Punalur, Kerala.	Water train
149394	8-2-1980	Lucas Industries, Public Limited Co., Great King Street, Birmingham 19, England.	A vehicle disc brake assembly.
149638	11-12-1979	—do—	A railway disc brake assembly.
149798	29-10-1979	—do—	Brake actuating assembly for a vehicle braking system.
149834	19-9-1979	—do—	A disc brake assembly.
150269	23-2-1981	—do—	A pin sliding caliper-disc brakes.
150461	8-2-1980	—do—	A friction Lining wear indicator for shoe drum brake.
150531	19-3-1979	—do—	Improvements in disc brakes for railway vehicles.
150635	9-1-1980	—do—	Vehicle load Sensing arrangement.
150636	5-3-1980	—do—	Drum brake adjusters.
150673	7-7-1980	—do—	A piston assembly for hydraulic master cylinder.
150779	21-5-1980	—do—	Automatically adjustable shoe drum brake.
151352	21-5-1980	—do—	A brake having an automatic adjuster.
151873	7-4-1981	—do—	Master cylinder.
152181	23-2-1981	—do—	A Servo booster for vehicle braking systems.
153873	5-8-1981	—do—	Master cylinder.
154071	22-12-1981	—do—	Friction pad assembly for use in a disc brake.
155601	15-10-1981	—do—	Vehicle drum brakes.

1	2	3	4
155604	4-12-1981	Lucas Industries, Public Limited Co., Great King Street, Birmingham-19, England.	Automatic adjuster for a shoe drum brake and shoe drum brake incorporating the same.
156336	20-4-1983	—do—	A disc for a vehicle disc brake.
156719	20-11-1982	—do—	Actuator for shoe-drum brake and a shoe-drum brake incorporating such actuator.
157182	11-1-1983	—do—	Internal shoe drum brake.
157186	20-4-1983	—do—	A disc for a vehicle disc brake.
157190	16-5-1983	—do—	An automatic adjuster for a shoe drum brake.
159774	23-12-1983	—do—	Sliding caliper disc brake with pad support.
160633	30-3-1984	—do—	A master cylinder for vehicle braking systems.
161356	5-6-1984	—do—	Improvement in vehicle disc brakes of the liquid cooled type.
162334	4-9-1984	—do—	Actuator assemblies for vehicle brakes.
163139	29-11-1984	—do—	Brake pressure control system.
163140	29-11-1984	—do—	Internal shoe drum brake.
163344	21-11-1984	—do—	A hydraulic pressure supplying master cylinder incorporating an internal reservoir.
163943	19-1-1985	—do	A spot type disc brake.
164828	27-5-1985	—do—	Improvement in liquid level indicators for vehicle hydraulic systems.
164150	7-5-1985	Melvin Andrew Ross, 4195 Munford Ct, Columbus, Ohio, U.S.A.	Compact crank drive mechanism for the two position stirling engine.
159249	31-1-1984	Mitsubishi Denki Kabushiki Kaisha, 2-3, Marunouchi, 2-Chome, Chiyoda-Ku, Tokyo, Japan.	Static Induction apparatus.
160496	6-3-1984	—do—	Heat exchanging device with heat exchanging plates.
160795	23-8-1984	—do—	Control apparatus for hoisting drum elevator.
163154	14-4-1982	—do—	Drawer type circuit breaker with improved latch means.
158723	17-2-1984	—do—	Power-transmitting V-belt.
159224	17-2-1984	Mitsubishi Belting Limited No. 1-21, Hamazoe-Dori, 4-Chome, Nagata-Ku, Kobe, Japan.	Power transmitting V-belt.
159226	18-2-1984	Mitsubishi Belting Limited, No 1-21, Homoroc-Dori 4-Chome, Nagata-Ku, Kobe, Japan.	Method for manufacturing elongated cogged V-belt.
159640	18-2-1984	—do—	Toothed rubber belt.
162773	10-10-1984	—do—	Drive means with toothed belt.
163505	18-12-1984	—do—	Method and apparatus for forming a cogged belt structure.
163787	21-1-1985	—do—	Power transmission belt for transmitting high loads.
163930	4-2-1985	—do—	Method of forming a double toothed timing belt.
161448	3-7-1984	Monsanto Company, 800 North Lindbergh, Boulevard, St. Louis, Missouri 63166, U.S.A	An apparatus for the recovery of heat from a sulphuric acid plant.

1	2	3	4
163370	23-3-1985	M. V. Sreenivasa Raju, 119, 1st A Cross, 3rd Main, Domlur Second stage, Indiranagar, Bangalore- 560 038	A device to guide and/or channelise hot water on the surface of water reservoir in a pre-determined route(s)/length(s) for cooling the same.
163852	28-12-1984	Naan Mechanical Works, Kibbutz Naan 73 263, Israel.	Drip irrigation emitter apparatus.
157209	27-10-1982	Nambamudi Sinniah Vellasithan Sinniah, Velanipatty, Kattampur Post, Ranmrod District, Tamil Nadu, India	An improved reduction gear arrangement.
160501	13-3-1985	Nalson Engineering Co. 27C Thottakurichi, Karur Tk, Trichy Dist, Tamil Nadu.	Window shutter assembly.
160599	9-4-1984	Nitto Boseki Co. Ltd., No 1, Aza Higashi, Gonome, Fukushima-Shi, Fukushima, Japan.	A method of producing fiber forming bushing.
160914	29-5-1984	—do—	A centrifugal force system glass fiber producing apparatus.
160482	30-3-1982	Normalair Garrett (Holdings) Ltd, Westland Works, Yeovil, Somerset, England.	Molecular Sieva type gas separation systems.
165305	6-8-1985	—do—	An air cycle cooling apparatus for aerospace application.
163942	18-1-1985	NYBY Uddeholm Powder AB, S-64 400 Tors- shalla, Sweden	A method of and apparatus for making metal powder
162774	16-10-1984	Owens-Illinois Plastics Products Inc. One Sea Gate, Toledo Ohio 43666, U.S.A.	A container having a neck & a body and a plastic table wrapped around the body.
162833	16-10-1984	—do—	Method & apparatus for making label wrapped containers.
162834	16-10-1984	—do—	A container with plastic label and method of making the container.
162053	26-7-1984	Palitex Project Company GmbH, Weeserweg B, 4150 Krefeld, West Germany.	Two-for-one twisting spindle.
163367	15-2-1985	—do—	A yarn wetting device.
163506	26-12-1984	—do—	A device for varying the tractive force and tension on a running threads.
163211	17-12-1984	Robert Walter Brewerton, 68 Betonson Avenue, Sevenoaks, Kent, England.	A motion compensator for use underwater in a mooring vessel to an underwater anchorage point
162971	19-11-1984	Sanden Corporation, 20 Kotobuki-Cho, Isesaki- Shi, Gunma-ken, Japan.	A scroll type fluid displacement apparatus.
162983	22-11-1984	—do—	Scroll type fluid displacement apparatus with anti- wear scroll device.
162988	22-11-1984	—do—	Scroll type fluid displacement apparatus with improved drive shaft supporting mechanism.
163010	19-11-1984	--do--	Scroll type fluid compressor.
163148	14-11-1984	—do—	Scroll type compressor with displacement of adjusting mechanism.
163156	26-12-1984	—do—	A refrigerant compressor with mechanism for adjusting the capacity thereof.
163342	14-11-1984	—do—	Scroll type fluid displacement apparatus including a pair of scrolls.
164141	21-11-1984	—do—	Scroll type fluid displacement apparatus with varying scroll thickness.

1	2	3	4
164156	18-2-1985	Sanden Corporation, 20 Kotobuki-cho, Isesaki-shi, Gunma-ken, Japan.	A wobble plate type refrigerant compressor.
164245	18-2-1985	—do—	Wobble plate type compressor with a capacity adjusting mechanism
163320	25-10-1984	Schlumberger Technology Corporation, 5000 Gulf Freeway Houston Texas 77023, U.S.A.	Annular electrical contact apparatus for use in drill stem testing.
163931	6-2-1985	Schlubert & Salzer Maschinenfabrik AG, Friedrich Ebert, Strasse 84, 8070 Ingolstadt, Germany	Open-end rotor spinning apparatus.
164126	11-2-1985	Shaw Industries Ltd, 25 Bethridge Road, Rexdale, Ontario, Canada M9W 1M7.	A metal pipe having a protective coating and a method of making the same.
159804	10-2-1984	Shell Internationale Research Maatschappij, B.V. Carel Van Bylandtlaan, 30 The Hague, The Netherlands.	Apparatus for transporting particulate material.
160132	21-2-1984	—do—	Apparatus for fractional distillation under vacuum.
160595	5-4-1984	—do—	Apparatus for separating mixtures of liquid and gas.
164284	14-3-1985	—do—	Apparatus for the gasification of the pulverised solid fuel.
149184	14-11-1979	Shroff Pillappa Venkatasubbiah, No. 12, Thimmaraya Setty Lane, Nagarhurpet Cross, Bangalore-560 002, Karnataka.	An apparatus for discharging liquid in measured quantity.
164397	20-3-1987	SKF Steel Engineering AB, P.O. Box 202, S-81300, Helsingborg, Sweden.	A shaft furnace with a plasma generator.
160897	18-5-1984	Sumitomo Electric Industries Ltd, 15, Kitahama, 5-Chome, Higashi-ku, Osaka, Japan.	A drill bit.
161687	6-9-1984	Sumitomo Metal Industries Ltd, 15, Kitahama, 5-Chome, Higashi-ku, Osaka-shi Japan, Osaka.	Apparatus for gasifying carbonaceous material.
160372	28-5-1984	Surya Gears, Jawan's Bhawan, 27, Traveller's Bungalow Road, Coimbatore-641 018, India.	A single motor multispeed drive for ring frames.
156230	12-2-1982	T I Cycles of India Limited, 28 Rajaji Road, Madras-600 001, India.	An adjustable H'bar for a bicycle.
163205	22-1-1985	Tri-Steel Inc, 1565 Cabot Street, Montreal, Quebec H4E 1C8, Canada.	A structural pole with diagonal inner bracing.
148074	13-3-1979	Tube Investments of India Ltd, Tiam House, 28, Rajaji Road, Madras-600 001.	A hand-drawn an animal drawn cart.
148455	16-6-1979	Tube Investments of India Limited, 28 North Beach Road, Madras-600 001, India.	A device for converting a bicycle into a prime mover.
148456	31-7-1978	—do—	A metallic light weight structural member.
149616	19-7-1979	—do—	A pump for being driven by a bicycle.
156708	27-5-1982	—do—	A shock absorber for the front wheel of a bicycle.
158018	18-1-1983	—do—	A seat shock absorber for two wheeled vehicle.
164622	16-3-1985	UIIDE GmbH, Friedrich-Uhde-Strasse 15, D-4600 Dortmund 1, F.R.G.	Device for achieving a uniform distribution of the gas flowing radially through a catalyst bed.
160123	18-7-1984	Dr Werner Freyberg Chemische Fabrik Delitia Nachf, 6941 Loudenbach, Federal Republic of Germany.	An apparatus for use in pest control.

COMMERCIAL WORKING OF PATENTED INVENTIONS

CHEM ENGG. LIST NO. II

The following patents in the field of Chemical Engineering Industry are not being commercially worked in India as admitted by patentees in the statements filed by them under Section 146(2) of the Patents Act, 1970 in respect of calendar year 1989 generally on account of want of request for licences to work the patented invention. Persons who are interested to work the said patents commercially may contact the patentees for the grant of a license for the purpose :—

Patent No.	Date of Patent	Name & Address of the Patentee	Title of the Invention
1	2	3	4
164286	10-4-1985	Alcan International Limited, 1188 Sherbrooke Street West, Montreal, Quebec, Canada-H3A 3G5	A method of tanning animal skins and hides.
160131	18-2-1984	Andhra Oil & Coke Products Limited, 43-20-25 A, Venkatajuna, Dondaparthi, Visakhapatnam 530 016, Andhra Pradesh, India.	Process for the production of calcium oxide or quicklime from powdered lime sludge.
148853	25-4-1980	BANGARU VENKATA RAMA LAKSHMI NARAYANA, 18-5-11, Bondadavari Street, Palakol-534 260, West Godavari Dist, Andhra Pradesh.	An insect repellent candle and a method for manufacturing such candle.
161444	19-6-1984	Battelle Development Corporation, 505 King Avenue Columbus, Ohio-43201-2693. U.S.A.	A process & apparatus for a high velocity multi-solid fluidized bed reaction.
160710	5-5-1984	IBL Technology Ltd, 35-38, Portman Square, London W1H OIIQ, Great Britain, etc.	Structures fabricated from aluminium components and processes involved in marking these structures.
151709	5-5-1982	Carborundum Universal Ltd., 28, Balaji Salai, Madras-600 001, Tamil Nadu, India.	A method for manufacturing calcium-silicon alloy.
163507	3-1-1985	Charbonnages De France, 9, Avenue Percier 75008, Paris, France.	A process for gasification of coal.
159600	21-3-1984	Chuo Kagaku Co Ltd, 5-1, 3-Chome, Miyaji Kounosu Shi, Saitama-ken, Japan.	A process for producing a resin foam by aqueous medium.
160920	31-8-1981	Ciba-Geigy AG/Klybeckstrasse 141, 4002, Basle, Switzerland.	Process for the preparation of aluminium or zinc phthalocyanine compounds.
161181	21-4-1984	Ciba-Geigy AG/Klybeckstrasse, 141, 4002, Basle, Switzerland.	Process for dyeing silk or silk-containing fibre blends.
161351	11-4-1984	—do—	Process for dyeing silk or fibre blends containing silk.
161366	6-7-1984	—do—	Process for the production of benzanthrone.
158232	27-8-1984	CPC International Inc, International Plaza, P.O. Box 8000, Englewood Cliffs, New Jersey-07632, U.S.A.	Process for making hot water dispensable corn starch having high paste viscosity.
163756	22-7-1986	Dainippon Ink & Chemicals Inc., 35-58, 3-Chome, Sakashita, Itabashi-ku, Tokyo, Japan.	Method of producing deodorants.
163127	14-5-1986	David Cullis-Hill, 111 Bronte Road, Bondi Junction, New South Wales, Australia.	A method of preparing high purity hyaluronic acid from synovial fluid.
159709	8-3-1984	FCNS srl, Via S Bosco, 3, Treviglio, Bergamo, Italy & Alphatime Ltd., of St Peter House, 119 High Street, Berkhamsted Hertfordshire, Great Britain.	Process for the preparation of pharmaceutical compositions having antineoplastic activity.
160591	31-3-1984	Granulite Limited, Millbank House Corporation, Street, Rugby, CV 21 2DW England.	A process for the manufacture of building materials.
164636	11-4-1985	—do—	A building material composition in granular form.

1	2	3	4
160411	23-3-1984	Hoechst AG, D-6230 Frankfurt am Main 80, Federal Republic of Germany.	Process and apparatus for making phosphorus pentoxide with utilization of the reaction heat.
160622	17-4-1984	—do—	Process and apparatus for making phosphorus pentoxide with utilization of the reaction heat.
162050	1-11-1985	—do—	A process for the preparation of a bacteriolytic enzyme product.
164639	15-4-1985	Honda Ciken Kogyo K.K. No 27-8 6-Chome, Jingumae Shibuya-ku Tokyo, Japan.	Process for manufacturing dies & dies made thereby.
160895	10-5-1984	Ilysa, S.A Apdo Postal 996, Monterrey, N.L. Mexico	A process for reducing particulate iron ore to sponge iron.
143864	4-5-1976	The Indian Space Research Organisation, Dep't. of Space F Block, Cauvery Bhavan, District Office Road, Bangalore-560 002, Karnataka.	Process for the production of polyols.
146818	17-3-1978	—do—	Process for the production of polyols containing basic nitrogen.
147483	16-2-1979	—do—	An extinguishing composition and a method for preparing the same.
149126	21-2-1980	—do—	An improved process for producing polyols.
149900	11-7-1980	—do—	A process for the production of poly hydroxy- ester resins.
153437	18-9-1981	—do—	A process for production of fire retardant rigid poly urethane foam.
160498	9-3-1984	Kerr Mc Gee Chemical Corporation, Kerr McGee Center, Oklahoma City, Oklahoma, U.S.A	Process for producing tetrachloride from natural or synthetic titanium ore, carbonaceous reductant and chloride.
160499	9-3-1984	—do—	Process for production of titanium dioxide from titaniferous ores.
162230	20-9-1984	—do—	A process for producing manganese Sulfate Solu- tion from manganese ores containing potassium impurity.
162339	20-9-1984	—do—	Preparation of manganese sulphate solution with very low concentration of potassium impurity.
147264	9-3-1978	KONTIKI CHEMICALS & PHARMACEUTI- CALS PVT. LTD., A.K. Office Buildings, Mill Road, Baliapattam, Kerala State, India.	Process for the preparation of Coir derivatives.
147307	8-1-1979	—do—	Process for preparing derivatives from coffee husks.
147418	9-3-1978	—do—	A process for preparing an improved adhesive substance.
147937	24-1-1979	KONTIKI CHEMICALS & PHARMACEUTI- CALS PVT. LTD., A.K. Office Building, Bali- patnam, Cannanore-670 010, Kerala.	Process for the production of cellulose.
154070	4-6-1982	—do—	Process for the production of heavy metal ion adsorbent.
154863	20-1-1981	—do—	Improvements in or relating to aminoplastics syn- thetic resin adhesives.
158416	12-10-1984	—do—	Process for the preparation of a colouring matter from coconut shell.
160251	11-4-1985	Mrs. Mandelika Mahalakshmi Subba Rao, 15-15-9 Bnedhavarapu Gardens Maharanipeta, Visakha- patnam-530 002, A.P.	Process for preparing hydrocarpii filaricide.
161432	14-6-1984	Mitsui Toatsu Chemicals Inc., 2, 5, 6-chome, Kasumigaseki Chiyoda-ku, Tokyo, Japan.	Process for producing dianthraquinone-N,N- Dipyridazine.

1	2	3	4
158230	10-8-1984	Monsanto Company 800 North Lindbergh Boulevard St Louis Missouri 63167 USA	Process for preparing 2-6 substituted pyridine compounds
160125	10-8-1984	—do—	A process for preparing substituted dihydropyridine isomers
163601	30-11-1984	—do—	Method of producing a nitro diarylamine
162060	23-5-1985	Nippon Chemiphar Co Ltd 223 Iwamoto-cho Chiyoda-ku Tokyo Japan	A process for the preparation of 1,3-oxo-Lidine-2-One derivative
162767	17-9-1985	—do—	A process for the preparation of amino-alcohol derivatives
163044	22-8-1986	—do—	Process for the preparation of novel quinaldine-mide derivatives
164200	30-1-1987	—do—	Process for the preparation of novel alkylene-dianine derivatives
162232	15-5-1982	Nitto Chemical Industry Co Ltd No 5-1 Marunouchi 1-Chome Chiyoda-ku Tokyo Japan	Process for improving activity of tellurium containing metal oxide catalysts
162051	12-7-1984	Rhone-Poulenc Films 25 Quai Paul Doumer, 92408 Courbevoie France	A biaxially drawn polyester film, process for its manufacture and its use in magnetic tapes and capacitors
163984	5-2-1985	Rhone-Poulenc Specialties Chimiques "Les Motte" 18 Avenue D Alsace 92400 Courbevoie France	Process for preparing alkyl alkoxyalkylidene malonates
162045	16-7-1985	Saienkai Foundation Juridical Person No 95 Fushimido cho Tondabayashi-shi Osaka, Japan	A process for preparing a biodeoderizer
163547	27-12-1984	Shell Internationale Research Maatschappij B V Carel Van Bylandlaan 30 The Hague Holland	A process for preparation of an activated catalyst
164143	8-2-1985	Shell Internationale Research Maatschappij B V Carel Van Bylandlaan 30 The Hague The Netherlands	Process for the preparation of hydrocarbons by catalytic reaction of carbon monoxide with hydrogen
164153	8-2-1985	—do—	Process for the preparation of hydrocarbons.
164406	27-3-1985	—do—	A process for the preparation of high-viscosity index lubricating oil
159598	22-7-1981	Stamicarbon B V P O Box-10 6160 Mc Geleen The Netherlands	Process for the preparation of copolymers of ethylene with at least one other 1-alkene
161655	24-7-1984	—do—	A process for the preparation of an import resistant polymer composition
162564	14-11-1984	—do—	Process for preparing a purified rubber
163848	5-12-1984	—do—	Process for preparing polyacrylonitrile articles having high tensile strength and modulus
162048	29-8-1985	Teikoku Hormone Mfg Co Ltd, 5-1, 2-Chome, Akasaka, Minato-ku Tokyo Japan	A process for the production of 2-(3,5-dialkyl-hydroxyphenyl) indole derivatives
162439	10-10-1985	—do—	Process for producing diphenemethylimine derivatives
162700	7-3-1986	—do—	A process for the preparation of 2-oxa-or-aza-pregnane compounds
163755	15-7-1986	—do—	Process for producing N-[1-piperidinylmethyl-phenoxy (propyl)] acetoxyacetamide hydrochloride
162234	27-8-1984	Unie Van Kunststoffenfabrieken B V Maliebaan 81, 3581 CG, Utrecht, The Netherlands	Process for the preparation of granules
162235	27-8-1984	—do—	Process for the preparation of granules
164392	7-3-1985	—do—	Process for the preparation of urea

1	2	3	4
159781	17-4-1984	Bayer (India) Ltd, Express Towers Nariman Point, Bombay-400 021, Maharashtra India.	Novel method of manufacture of 4-amino-diphenylamine.
146527	28-4-1977	Hindustan Lever Ltd, 165-166, Backbay Reclamation, Bombay-20, Maharashtra, India	A method of purifying perfumery materials.
146699	12-1-1977	—do—	An antiperspirant composition.
147005	12-10-1976	—do—	Heavy duty detergent composition.
147013	8-9-1977	—do—	Process of refining triglyceride oils.
147266	10-2-1978	—do—	Deodorant detergent composition.
147286	15-2-1978	—do—	Preparation of allylic terpenic esters
147448	4-8-1978	—do—	Process for improving colour and removing undesirable odour of soap.
147598	15-2-1978	—do—	A method of purifying allylic tertiary esters by distillation
147962	15-5-1978	—do—	A process for making particulars detergent compositions.
148180	15-1-1979	—do—	Process for the preparation of alkyl benzene mono-sulphonic acid.
148996	24-4-1979	—do—	Synergistic Compositions for promoting hair growth.
149098	17-3-1979	Ahmedabad Textile Industry's Research Association, P.O. Polytechnic Ahmedabad, 380015, Gujarat, India.	An improved process for imparting flame retardancy to cellulosic fibres.
149583	10-7-1979	Hindustan Lever Ltd, 165-166 Backbay Reclamation, Bombay-20 Maharashtra, India.	A method of extracting n-paraffins (wax) from mineral oil containing n-paraffins
149734	26-2-1979	—do—	Process for preparation of Synthetic fatty acid soap from paraffins.
149765	9-1-1979	—do—	Deodorant detergent composition and process for preparing the same
150018	27-11-1979	—do—	A process for making an improved dimensionally stable detergent bar.
150029	7-11-1979	—do—	A process for making an improved dimensionally stable detergent bar.
150204	24-7-1980	—do—	A process for making plant growth nutrient/stimulant.
150249	20-3-1979	—do—	Non-germicidal deodorant toilet soap bar and process for preparing the same.
151014	21-6-1979	—do—	A process for obtaining basic aluminium halide such as chloride, bromide, or iodide having improved antiperspirant properties.
151317	29-1-1981	—do—	Process for the manufacture of water soluble alkali metal salts of α -Sulphonated alkyl esters of long chain fatty acids.
151322	18-1-1980	—do—	Liquid duty dishwashing liquid detergent compositions.
151711	6-7-1981	—do—	A process for preparing hardened and dehydroxylated castor fatty acid feed stock.
152715	4-9-1981	—do—	A method for preparing non-adible dehydroxylated short chain (C_1 to C_4) esters of hardened castor acids for use in Soap making, lubricants and paints.

1	2	3	4
152722	8-7-1980	Hindustan Lever Ltd., 165-166 Backbay Reclamation, Bombay-400 020, Maharashtra, India.	Process for producing a heteropolysaccharide.
153988	6-8-1980	—do—	Synergistic deodorant compositions.
153989	6-8-1980	—do—	Synergistic deodorant composition.
153990	4-9-1981	—do—	Method of deoiling of slack waxes and the deoiled slack wax obtained thereby.
153991	15-9-1980	—do—	A synergistic liquid dishwashing detergent composition for washing plates, dishes and saucepans.
153992	17-3-1982	—do—	method of upgrading linalyl acetate by removing chlorine from impurities.
154319	30-10-1980	—do—	A process for preparing an adjunct for use in the manufacture of a detergent powder.
154705	12-1-1981	—do—	A process for preparing spray-dried detergent powders and detergent powders so prepared.
154776	7-2-1981	—do—	Process for the manufacture of calcium soap.
154777	7-2-1981	—do—	A process for the preparation of an alkali metal of an organic carboxylic acid.
155041	9-4-1981	—do—	A detergent bar having halite material for washing in ultraviolet light.
155044	5-9-1981	—do—	A method of manufacturing built detergent bars of improved hardness.
155045	5-9-1981	—do—	A method of manufacturing built detergent bars of improved hardness.
155073	17-3-1982	—do—	Detergent bars having improved resistance to sogginess and reduced rate of wear.
155097	17-6-1981	—do—	Particulate Soap-based detergent composition.
155099	17-3-1982	—do—	A process for the preparation of acyloxymethyl derivative capable of being used as perfumery components from hydrocarbon by-product.
155244	18-11-1982	—do—	A process of making soap.
155758	10-9-1981	—do—	A high internal phase water-in-Oil emulsion and a process for preparing the same.
156181	21-12-1982	—do—	A bleaching composition comprising a peroxide compound and a heavy metal compound.
156193	29-5-1982	—do—	A process for the preparation of alkali metal isothionates from ethionic acid.
156362	2-9-1983	—do—	Process for regenerating conventional spent adsorbent used for refining fatty material.
156363	11-8-1982	—do—	Manufacture of acyl isothionates.
156365	16-10-1982	—do—	A method for washing fabrics in water containing calcium hardness and a detergent composition therefore.
		—do—	A synergistic detergent composition.
		—do—	A synergistic detergent compositions.
		—do—	A process for preparing detergent active sulpho-succinate.

1	2	3	4
157133	25-3-1983	Hindustan Lever Ltd., 165-166, Backbay Reclamation, Bombay-400 020, Maharashtra, India.	An improved process for preparing superfatted Soap bars having improved properties such as improved lather and reduced much properties from conventional raw materials and soap thereby obtained.
157134	25-3-1983	—do—	An improved method of subjecting a soap containing material to a hardening process to obtain hard soap bar and soap bars obtained thereby.
157135	25-3-1983	—do—	An improved process for processing soap feed stocks to provide soap bars having reduced grittiness and soap bars obtained thereby.
157137	25-3-1983	—do—	An improved process for preparing soap bars having increased transparency and soap bars thereby obtained.
157143	5-5-1983	—do—	A process for the preparation of Nickel upon transition alumina catalysts.
157274	25-3-1983	—do—	An improved process for preparing soap bars having modified phases and soap bars obtained thereby.
157420	9-3-1984	—do—	Improved peroxide adduct containing bleach compositions.
158153	19-7-1984	—do—	An improved method of manufacturing detergent bar having uniform properties.
158157	10-11-1983	—do—	A liquid detergent composition having high foaming characteristics.
158159	10-11-1983	—do—	A liquid detergent composition having high foaming characteristics.
158201	11-6-1984	—do—	An improved process for the preparation of carboxyalkyl derivatives of polygalactomannans.
158390	18-8-1983	—do—	A liquid scouring cleanser composition.
158632	10-11-1983	—do—	A liquid detergent composition having improved foaming characteristics.
158636	16-12-1983	—do—	A built detergent bleach composition containing manganese compound which delivers manganese ions in aqueous solutions.
158637	16-12-1983	—do—	A built detergent bleach composition containing manganese compound which delivers manganese ions in aqueous solution.
158761	14-3-1985	—do—	Powder detergent composition with modified sodium chloride.
158778	22-1-1985	—do—	A method for sulphonation of fatty acid esters.
158779	12-12-1983	—do—	A particulate solid detergent composition.
158784	7-3-1984	—do—	Processing of polysaccharides.
158785	4-3-1985	—do—	A process for the preparation of groundnut cake suitable as a component for animal foodstuff.
158786	4-3-1985	—do—	An improved process for the manufacture of 3, 4, 5-trimethoxybenzaldehyde.
159778	19-1-1984	—do—	A process for the manufacture of a detergent active dialkyl sulphosuccinate mixture.
159783	2-5-1984	—do—	An improved bleaching and cleaning composition.
159933	15-10-1984	—do—	Process for preparation of transparent detergent bars.
159938	6-11-1984	—do—	A method of preparing manganese adjuncts for use as bleach catalyst.

1	2	3	4
159969	27-6-1985	Hindustan Lever Ltd., 165-166, Backbay Reclamation, Bombay-400 020, Maharashtra, India.	A process for preparing a plant growth nutrient composition.
159974	25-4-1984	—do—	Foaming aqueous liquid detergent composition.
160006	25-9-1984	—do—	A stable gas entrained toothpaste having increased viscosity and fluffy appearance.
160030	24-7-1982	—do—	A process for the preparation of detergent composition.
160031	24-7-1982	—do—	A synergistic detergent composition.
160645	14-3-1985	—do—	Improved method of preparing modified sodium chloride for use in powder detergent compositions.
160861	4-12-1984	—do—	Alkaline built detergent bleach composition.
160862	4-12-1984	—do—	Alkaline built detergent bleach compositions.
161099	23-11-1984	—do—	—Detergent compositions.
161100	29-1-1986	—do—	A process for the manufacture of aluminium fluoride from ammonium fluoride.
161103	20-12-1984	—do—	Process for preparing a transition metal silicate catalyst.
161104	3-12-1985	—do—	Improvements in or relating to process for the preparation of acetylindans.
161109	20-1-1985	—do—	A method of manufacturing fatty acid (CB—C22) ester (C1—C4) Sulphonates.
161111	7-6-1985	—do—	—Particulate built detergent compositions.
161316	29-1-1986	—do—	A process for recovering fluorine value from sodium fluorosilicate.
162037	22-8-1986	—do—	An improved process for the recovery of fatty acids from the oxidate obtained by oxidation of normal paraffins.
162412	25-2-1985	—do—	Aqueous detergent compositions.
162417	5-7-1985	—do—	Process for the preparation of Nickel/alumina catalysts.
162418	5-7-1985	—do—	Process for the preparation of Nickel/alumina/Silicate catalysts.
162632	9-5-1985	—do—	Detergent compositions.
162633	9-5-1985	—do—	Homogeneous framing detergent composition in gel form.
162637	2-9-1985	—do—	An improved process for the manufacture of built detergent bars.
163033	28-6-1985	—do—	A built detergent bar composition.

1	2	3	4
163034	5-7-1985	Hindustan Lever Ltd., 165-166, Backbay Reclamation, Bombay-400 020, Maharashtra, India.	A process for preparing lavatory cleansing blocks free from para-dichlorobenzene and lavatory cleansing blocks thereby obtained.
163495	24-7-1985	—do—	An improved built detergent composition in bar form.
163723	5-5-1986	—do—	Silicate-free detergent granules and method of producing same.
163728	12-11-1986	—do—	Process for making toothpaste.
163868	9-9-1986	—do—	Soap based detergent compositions.
163870	4-10-1985	—do—	A process for preparing an Oil-in-water emulsion suitable for topical application to human skin.
163877	11-12-1986	—do—	Method of preparing a two part oral hygiene product.
163878	29-12-1986	—do—	Hard spherical bleaching particles.
163971	11-10-1985	—do—	Process for the preparation of sulphonated mixtures of fatty acid ester and or organic Compound, the sulphonation product whereof is detergent-active.
164296	7-2-1986	—do—	A process for the manufacture of built laundry bars.
164354	20-1-1986	—do—	Process for preparing toilet bar compositions.
163725	31-12-1985	Isovolt A Osterrei-chische Isolier StOffwerke Ag, A-2351 Wiener Neudorf, Austria.	A process for impregnating a planer compressible carrier material with synthetic resin and a device for carrying out the said process.
163686	9-12-1985	Maharaj Krishan Mehta, 23 Maison Belvedere, 107, M.K. Road, Bombay-400 020, State of Maharashtra, India.	Improvement in or relating to chemical dehumidifier.
157146	7-7-1983	Sandvik Asea Ltd, Bombay Poona Road, Poona-411 012, Maharashtra, India.	An improved process for the recovery of tungsten from tungsten bearing material and an apparatus therefor.
160004	23-8-1984	Vaidyanathan Vankitachalam, 6, Gokul New Sudho Hsg, Society, Dr R.P. Road, Mulund (W) Bombay-400 080.	A process for upgrading and calcination of low grade/off grade kyanite to high grade calcined product.

AMENDMENT PROCEEDING UNDER SECTION 57

Proposed amendments under Section 57 of the Patents Act, 1970 in respect of Patent No. 167597 (613/Mas/88) as advertised in the Gazette of India dated 27-4-1991 have been allowed.

Proposed amendments under Section 57 of the Patents Act, 1970 in respect of Patent No. 167596 (612/Mas/88) as advertised in the Gazette of India 27-4-1991 have been allowed.

Proposed amendments under Section 57 of the Patents Act, 1970, in respect of Patent Application No. 167196 (183/Mas/88) as advertised in the Gazette of India dated 6-4-1991 have been allowed.

AMENDMENT UNDER SECTION 78 OF THE PATENTS ACT, 1970

In the patent specification No. 165399 the following amendment has been effected. Earlier pages 1, 5 and 6 from the accepted complete specification have been deleted and freshly amended pages 1, 5 and 6 have been inserted.

AMENDMENT PROCEEDINGS UNDER SECTION 57

Notice is hereby given that Candela Laser Corporation originally Candela Corporation of 19 Strathmore Road, Natick, Massachusetts

01760, United States of America and The General Hospital Corporation, of 55 Fruit Street, Boston, Massachusetts 02210, USA have made an application under Section 57 of the Patents Act, 1970 for amendment of application, specification and letters Patent Document of their Patent No. 165227 for "pulsed laser apparatus for fragmentation of target material within the body".

The application for amendment and the proposed amendments can be inspected free of charge at Patent Office 234/4, Acharya Jagadish Bose Road, Calcutta-700017 or copies of the same can be had on payment of the usual copying charges. Any person interested in opposing the application for amendment may file a notice of opposition on the prescribed Form 30 within three months from the date of this notification at the Patent Office, Calcutta. If the written statement of opposition is not filed with the notice of opposition it shall be left within one month from the date of filing of the said notice.

Notice is hereby given that GEA Energiesystemtechnik GmbH & Co., Waldring 43, 4630 Bochum, Germany have made an application under Section 57 of the Patents Act, 1970, for amendment of application and specification of their application for Patent No. 168663 for APPARATUS FOR THE SEPARATING OF SOLID IMPURITY PARTICLES FROM COOLING WATER FOR POWER STATIONS AND THE LIKE. The amendments are by way of correction. The application for amendments and the proposed amendments can be inspected free of charge at the Patent Office Branch, 61, Wallajah Road, Madras-600 002, or copies of the same can be had on payment of the usual copying charges. Any person interested in opposing the application for amendment may file a notice of opposition on the prescribed Form 30 within three months from the date of the notification at the Patent Office, Madras-2. If the written statement of opposition is not filed with the notice of opposition it shall be left within one month from the date of filing of the said notice.

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154948 156997 157570 157909 158403 158730 159298 159352 159357
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CALCUTTA (247/C/91-339/C/91)

Name & Appln. No.

—A—

AGL Consultancy Pty. Ltd.—320/Cal/91.

American Cyanamid Co.—294/Cal/91.

Australian National University, The.—314/Cal/91.

Name & Appln. No.

—B—

Babcock & Wilcox Co., The.—250/Cal/91.

Barman, P.K.—256/Cal/91.

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—C—

Central Mine Planning & Design Institute Ltd.—322/Cal/91.

Chang, D.P.—306/Cal/91.

Combustion Engineering Inc.—249/Cal/91.

Commonwealth Scientific & Industrial Research Organisation.—320/Cal/91.

Copyguard Enterprises S.A.—291/Cal/91.

—D—

De Gruyter Enterprises M/a.—304/Cal/91.

Degussa Aktiengesellschaft.—270/Cal/91.

De La Rue Giori S.A.—251/Cal/91, 252/Cal/91 & 323/Cal/91.

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Bhave, S.A. (Mr.).—107/Bom/91.

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—S—

Buzruk, P.S.—102/Bom/91.

Saha, G. (Sri).—269/Cal/91.

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—J—	Brandt, Inc.—334/Mas/91.
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—M—	Charbonnages de France (Établissement Public).—282/Mas/91
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—P—	Elkem Aluminum ANS.—269/Mas/91.
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—A—	Inland Steel Co.—309/Mas/91 & 310/Mas/91.
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—P—	Zimmermann & Jansen GmbH—276/Mas/91.
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Premier Refractories & Chemicals Inc—307/Mas/91.	AB Bofors—262/Del/91.
—R—	AB SKF—348/Del/91
Rajan, R.S.—293/Mas/91.	Albright & Wilson Ltd—276/Del/91, 277/Del/91, 278/Del/91 & 300/Del/91
Raju, M.V.S.—260/Mas/91.	Alcan International Ltd—324/Del/91.
Rank Taylor Hobson Ltd—308/Mas/91.	Allison Bradley Co. Inc—264/Del/91
Rockwell International Corporation—302/Mas/91 & 304/Mas/91	Applications Mecaniques Et Robinetterie Industrielle (A.M.R.)—77/Del/91.
—S—	Armclo Inc—358/Del/91
Sakurada, Y.—275/Mas/91 & 281/Mas/91	Armclo Steel Co. L.P—317/Del/91.
Sarma, D.S.—301/Mas/91	Auxmet—308/Del/91.
Schlumberger Holdings Ltd—272/Mas/91.	—B—
Schubert & Salzer Maschinenfabrik AG—261/Mas/91 & 299/Mas/91.	B F. Goodrich Co. The—319/Del/91, 344/Del/91 & 380/Del/91.
Shell Internationale Research Maatschappij B V —127/Mas/91	BP Chemical Ltd.—282/Del/91.
Shet, G.V.—277/Mas/91.	Banerji, J.B.—286/Del/91.
Sinetica SA—322/Mas/91.	—C—
Smanprogetti S P.A.—314/Mas/91	CPC International Inc.—349/Del/91.
Societe des Produits Nestle S.A.—274/Mas/91, 305/Mas/91 & 326/Mas/91.	C. R. Bard Inc.—351/Del/91.
South India Textile Research Association, The—267/Mas/91.	Caot hoo Manufacture Et Plastiques—332/Del/91 & 333/Del/91.
Sree Chitra Tirunal Institute for Medical Sciences & Technology—271/Mas/91.	Cheena, I.I.S.—261/Del/91 & 294/Del/91.
Stamicarbon B.V.—280/Mas/91, 290/Mas/91 & 315/Mas/91	Chemical Research & Licensing Co—331/Del/91.
Star Refrigeration Ltd.—263/Mas/91	Chief Controller Research & Development, Ministry of Defence.—289/Del/91.
Surendran R.—340/Mas/91	
4—G—227 GI/91	

Name & Appln. No.

Name & Appln. No.

—C—Contd.

Church & Dwight Co. Inc.—294/Del/91 & 314/Del/91.

Clecam.—297/Del/91.

Colas Roads Ltd.—383/Del/91.

Comaco India Pvt. Ltd.—320/Del/91.

Compagnie Francaise D'Etudes Et De Construction Technip.—327/Del/91.

Council of Scientific & Industrial Research.—269/Del/91, 287/Del/91, 288/Del/91, 365/Del/91, 366/Del/91, 367/Del/91, 368/Del/91, 369/Del/91, 370/Del/91, 371/Del/91 & 372/Del/91.

Courtaulds Films & Packaging (Holdings) Ltd.—359/Del/91.

—D—

Dr. Beck & Co. Aktiengesellschaft.—335/Del/91.

Dresser Industries, Inc.—292/Del/91.

—E—

Eastman Kodak Co.—334/Del/91.

Edwards, T.—381/Del/91.

El-Sew-Con Ltd.—347/Del/91.

Exxon Chemical Patents, Inc.—267/Del/91 & 318/Del/91

—F—

Fosroc International Ltd.—340/Del/91 & 341/Del/91.

—G—

GEC Alsthom S.A.—325/Del/91, 326/Del/91 & 362/Del/91.

GEC Plessey Telecommunications Ltd.—285/Del/91.

GPT Ltd.—343/Del/91.

Gautam, V.—305/Del/91.

Gebruder Bhuler AG.—272/Del/91.

Ghosh, G.—375/Del/91.

Gillette Co. The.—273/Del/91 & 291/Del/91.

Gill, I.S.—374/Del/91.

—H—

Hickman, J.A.A.—355/Del/91.

Holzer, W.—283/Del/91.

Hydro Energy Associates Ltd.—345/Del/91.

—I—

Ide, R.D.—361/Del/91.

Imperial Chemical Industries PLC.—265/Del/91.

Ingersoll-Rand Co.—279/Del/91, 280/Del/91 & 281/Del/91.

—J—

Jain, V.K. (Dr.)—301/Del/91.

Johnson Matthey Public Ltd. Co.—268/Del/91.

Jonhig Ltd—299/Del/91.

—K—

Kabushiki Kaisha Dairiseki Kohgeisha.—336/Del/91.

Kabushiki Kaisha Toshiba.—328/Del/91.

Karl Fischer Industrieanlagen GmbH.—309/Del/91.

Kumar, P. (Prof)—301/Del/91.

—L—

L.A. Gear, Inc.—306/Del/91

Linx Printing Technologies Ltd.—316/Del/91.

Lubrizol Corporation, The.—270/Del/91, 271/Del/91, 290/Del/91.

Luigi Stoppani S.P.A.—379/Del/91

—M—

Maschinenfabrik Sulzer-Burckhardt Ag.—296/Del/91.

Maxx Energy Services Group, Inc —284/Del/91.

Motorola Inc.—307/Del/91, 339/Del/91 & 384/Del/91.

Murthy, S.S.—303/Del/91.

—N—

Nadeem Electronics (Pvt) Ltd—346/Del/91.

Nokia-Maillefer Holding S.A.—274/Del/91 & 275/Del/91.

Northern Territory of Australia, The —354/Del/91.

—P—

PPG Industries, Inc.—338/Del/91

Poplain Hydraulics.—356/Del/91.

Procter & Gamble Co. The.—266/Del/91, 310/Del/91, 311/Del/91, 312/Del/91, 313/Del/91, 321/Del/91, 322/Del/91, 323/Del/91 & 352/Del/91.

—R—

Research & Development Institute Inc. The.—350/Del/91

Riker Laboratories, Inc.—343/Del/91.

Rohm & Haas, Co.—263/Del/91 & 378/Del/91.

—S—

Samralabs Pvt. Ltd.—302/Del/91

Sayeed, A.—373/Del/91.

Secretary The, Deptt. of Science & Technology.—329/Del/91

Name & Appln. No

S—Contd.

Sharma, L.R.—315/Del/91

Singh, G.—337/Del/91.

Societe De Conseils De Recherches Et D' Applications Scientifiques
(S.C.R.A.S.)—382/Del/91.

Stein Industrie.—357/Del/91.

—T—

Tasgaonkar, G S—376/Del/91

Telefonaktiebolaget J M Ericsson—295/Del/91.

Telefonica De Espana, S A—330/Del/91

—U—

UOP—293/Del/91 & 353/Del/91.

—W—

W R Grace & Co. Conn—301/Del/91.

—Y—

Yadav, P—305/Del/91.

Yadav, V—305/Del/91.

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Notice is hereby given that any person interested in opposing the grant of patents on any of the Applications concerned, may at any time within four months of the date of this issue or within such further period not exceeding one month applied for on Form 14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months, give notice to the Controller of Patents on the prescribed Form 15, of such opposition. The written statement of opposition should be filed alongwith the said notice or within one month of its date as prescribed in Rule 36 of the Patents Rules, 1972.

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स्वीकृत सम्पूर्ण विनिर्देश

एतद्वारा यह सूचना ही जाती है कि सम्बद्ध आवेदनों में से किसी पर पेटेंट उनुकान का विरोध करने के इच्छुक कोई व्यक्ति, इसके निर्माण की तिथि से 4 महीने या अप्रिम ऐसी अवधि जो उक्त 4 महीने की अवधि की समाप्ति के पूर्व पेटेंट नियम, 1972 के तहत विहित प्रपत्र-14 पर आवेदित एक महीने की अवधि से अधिक न हो, के भीतर कभी भी नियंत्रक, एकस्व को ऐसे विरोध की सूचना विहित प्रपत्र-15 पर दे सकते हैं। विरोध सम्बन्धी विविध वक्तव्य, उक्त सूचना के साथ अवधार पेटेंट नियम, 1972 के नियम 36 में व्याख्यित इसकी तिथि के एक महीने के भीतर ही फाला किए जाने चाहिए।

"प्रत्येक विनिर्देश के संदर्भ में नीचे दिए वर्गीकरण, मारतीय वर्गीकरण तथा अन्तर्राष्ट्रीय वर्गीकरण के अनुरूप है।"

नीचे सूचीगत विनिर्देशों की सीमित संख्यक में मुद्रित प्रतिरूप, भारत सरकार द्वाकर दिपो, 8, किरण शंकर राय रोड, कलकत्ता में विक्रय हेतु यथासमय उपलब्ध होंगी। प्रत्येक विनिर्देश का मूल्य 2/- रुपये है (यदि भारत के भाहर भेजे जाए तो अतिरिक्त दाक दर्ता)। मुद्रित विनिर्देश की आपूर्ति हेतु मात्र पत्र के साथ निम्नलिखित सूची में यथाप्रवर्णित विनिर्देशों की संख्या संलग्न रहनी चाहिए।

कृपाकरण (धित्र आरेखों) की फोटो प्रतियाँ, यदि कोई हों, के साथ विनिर्देशों की दृक्षित अवधार फोटो प्रतियों की आपूर्ति पेटेंट कार्यालय, कलकत्ता द्वारा विहित लिप्यान्तरण प्रभार जिसे उक्त कार्यालय से पत्र-व्यवहार द्वारा सुनिश्चित करने के उपरात उसकी अदायगी पर की जा सकती है। विनिर्देश की पृष्ठ संख्या के साथ प्रत्येक स्वीकृत विनिर्देश के सामने नीचे वर्णित धित्र आरेख कागजों को जोड़कर उसे 4 से गुणा करके; (क्योंकि प्रत्येक पृष्ठ का लिप्यान्तरण प्रभार 4/- रुपये है) फोटो लिप्यान्तरण प्रभार का परिकलन किया जा सकता है।

CLASS : 188 206-E.
Int. Cl. : C 23 c 14/34.

169091

IMPROVED ELECTRIC ARC VAPOR DEPOSITION
METHOD & APPARATUS.

Applicant : ANDAL CORPN, AT 60 MADISON AVENUE,
NEW YORK, NEW YORK 10010.

Inventor : CLARK BERGMAN.

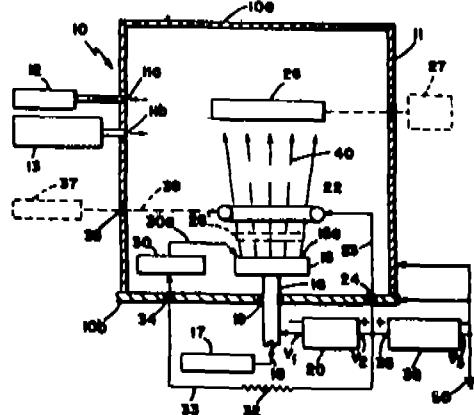
Application No. 471/Cai/1986, filed on June 25, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

22 Claims

In an electric arc vapor deposition process suitable for performing vapor deposition on substrates within an evacuated deposition chamber by means of a coating plasma formed by an electric arc passing between a sacrificial coating material source cathode and an anode, the process comprising :

- (a) evacuating the deposition chamber;
- (b) establishing a first voltage difference and electric return path between the anode and the sacrificial coating material source cathode within the evacuated chamber, adequate to sustain an electric arc discharge therebetween;
- (c) initiating an electric arc between said sacrificial cathode and said anode;
- (d) establishing a second voltage difference between at least one conductive surface within said evacuated chamber and said cathode that has a value slightly less than that of said first voltage difference, wherein said anode is more positively biased relative to said cathode than is said one conductive surface;
- (e) providing an electric current flow path between said anode and said one conductive surface; and
- (f) configuring and arranging said anode within said chamber relative to said sacrificial cathode such that electrons discharged by said arc from said sacrificial cathode will tend to be attracted more toward said anode than toward said one conductive surface.



Compl. Specn. 29 Pages.

Drg. 1 Sheet.

CLASS : 101-B.
Int. Cl. : E 02 d 5/00.

169092

A DEVICE FOR CONSTRUCTING A RIGID STRUCTURE UPON THE BOTTOM OF A BODY OF WATER.

Applicant : DARYA PAYE JETTY CO., LTD., OF ELLENS COTTAGE, WOOLTON FARM, BEKESBOURNE, CANTERBURY, KENT, GREAT BRITAIN.

Inventor : AHMAD MASOUDI.

Application No. 838/Cal/1986, filed on November 18, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

6 Claims

A device for constructing a rigid structure upon the bottom of a body of water, such as a platform, a jetty, a pier, a column or the like which comprises a double walled casing having a top part which is smaller in cross-section than that of its base, the inner and the outer wall of which defining a hollow space, said casing is open at the top and closed at the bottom in a manner forming a sharp lower edge.

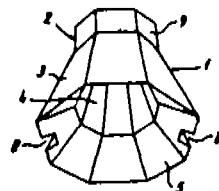


Fig. 1

Compl. Specn. 10 Pages.

Drg. 3 Sheets.

CLASS : 32-F_{2b},
Int. Cl. : C 07 d 251/52.

169093

A PROCESS FOR THE PREPARATION OF N, N'-SUBSTITUTED BIS-(2, 4-DIAMINO-S-TRIAZIN-6-YL)-TETRA-SULFIDES.

Applicant : DEGUSSA AKTIENGESELLSCHAFT, OF 6000 FRANKFURT AM MAIN, WEISSFRAUENSTRASSE 9, F.R. GERMANY.

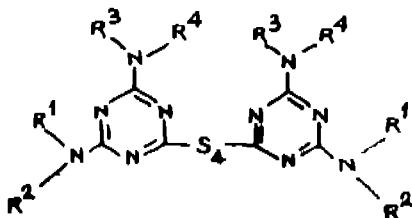
Inventors : (1) WERNER SCHWARZE, (2) SIEGFRIED WOLFF, (3) HORST LAMBERTZ.

Application No. 199/Cal/1987, filed on March 11, 1987

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

5 Claims

A process for the production of N, N'-substituted BIS-(2, 4-Diamino-S-Triazin-6-YL)-Tetrasulfides corresponding to the general formula I of the accompanying drawings in which :



Formula (I)

R¹ and R² are H : R³ is benzyl, R², R³ and R⁴ are C₁-C₆ alkyl, alkenyl, C₂-C₆ cycloalkyl, unsubstituted or substituted by 1 to 3 methyl groups, 2-hydroxy-ethyl, 3-hydroxypropyl, 2-hydroxypropyl or R³ and R⁴ (together) represent C₄-C₆ alkylene, -(CH₂-CH₂)_nY where X is H, CH₃ and Y is O, S, comprising reacting an aqueous alkaline solution

of N, N'-substituted 2, 4-diamino -6 -mecaptotriazine at temperature not exceeding 20°C in a two-phase system with a solution of S₂Cl₂ in an inert organic solvent in which the desired tetrasulfide is formed in insoluble or only sparingly soluble form.

Compl Specn. 52 Pages.

Drg. 1 Sheet.

CLASS : 152-E, 32-E.
Int. Cl. : C 08 I 29/02, 29/04, 29/14.

169094

METHOD OF PREPARING THERMOPLASTIC POLYACETAL COMPOSITIONS.

Applicant : E.I. DU PONT DE NEMOURS AND COMPANY, LOCATED AT WILMINGTON, DELAWARE, UNITED STATES OF AMERICA.

Inventor · NORMAN EUGENE WEST.

Application No. 291/Cal/1987, filed on April 10, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

17 Claims

Method of preparing a thermoplastic polyacetal composition, such as herein described, consisting essentially of:

(a) 0.1—10 weight per cent of at least one compound selected from the group consisting of hydroxy containing polymers and hydroxy containing polymers and hydroxy containing oligomers, and

(b) 90—99.9 per cent of at least one polyacetal polymer.

Provided that the above-stated percentages are based on the total of components (a) and (b) only, provided further that the atoms in the backbone of the polymer or oligomer to which the hydroxy groups are attached, directly or indirectly, are separated from each other, on average, by not more than twenty chain atoms, and provided further that the hydroxy containing compound is substantially free of acidic materials; the method comprising mixing the hydroxy containing compound with the polyacetal polymer at a temperature above the melting points of the components of the composition and below the temperature at which degradation of the components will occur.

Compl Specn 35 Pages

Drg. NIL.

CLASS 47-C.
Int. Cl. : C 10 b 39/00

169095

DEVICE FOR DRY-COOLING OF COKE

Applicant : OTTO INDIA PRIVATE LIMITED, OF F/16 SECTION 2, ROURKELLA-769006 ORISSA, INDIA; AND FIRMA CARL STILL GMBH & CO KG., OF POSTFACH 101851, 4350 RECKLINGHAUSEN, WEST GERMANY.

Inventors : DR. KURT LORENZ AND HORST DUNGS.

Application No. 880/Cal/1987 filed on November 10, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

21 Claims

Device for dry-cooling of coke consisting of an upper antechamber (1)/(31) with one or more leading peninsulas (3) for the hot chamber coke and a transfer opening (4)/(34) through which to feed a cooling chamber (2)/(32) positioned underneath with associated coke discharge devices (12) and coolant gas feed (7)/(37) in the lower area and coolant gas exhaust devices (6)/(36) at the upper end of the cooling chamber (2)/(32), characterized in that the cooling chamber (2)/(32) and the antechamber (1)/(31) are both rectangular and approximately the same size in cross-section, the transfer opening (4)/(34) is shaped as a rectangular opening extending at least the entire length of the cooling chamber (2)/(32) and antechamber (1)/(31), and at the upper end of the cooling chamber (2)/(32) the exhaust lines (6)/(36) for the coolant gas are positioned on the side along the entire length.

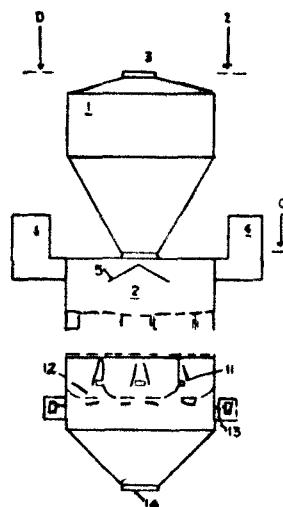


Fig. 1
Compl. Specn. 15 Pages.

Drg. 4 Sheets.

169096

CLASS : 102-B.
Int. Cl. : F 15 b 15/00

AUTO CALIBRATING ELECTRO-HYDRAULIC SERVO DRIVER

Applicant : INTERNATIONAL CONTROL AUTOMATION FINANCE S.A. OF VILLE DE LUXEMBOURG, 16 RUE DES BAINS, LUXEMBOURG

Inventors : (1) RICHARD FUGENE BENSON (2) ANDREW DEAN GAVRILOS, (3) ROBERT SAMUEL RAND, (4) SCOTT MARSHAL SHAW, (5) JOEL WADE SPAFFORD, (6) RONALD JOSEPH WALKO.

Application No. 1/Cal/1988, filed on January 01, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

8 Claims

An electro-hydraulic servo system having automatic calibration capabilities and having the ability to move a driven device toward a desired position for the driven device comprising means for determining the present position of the driven device, microcontroller means for actuating the driven device, memory means for storing calibration data for the driven device, a microprocessor means for accessing said calibration data said memory means and calculating the desired position of the driven device from said calibration data, a means for producing an output signal equal to the difference between instant position of the driven device and the desired position of the driven device, and means responsive to said output signal and actuatable by said output signal to cause the driven device to move toward the desired position of the driven device.

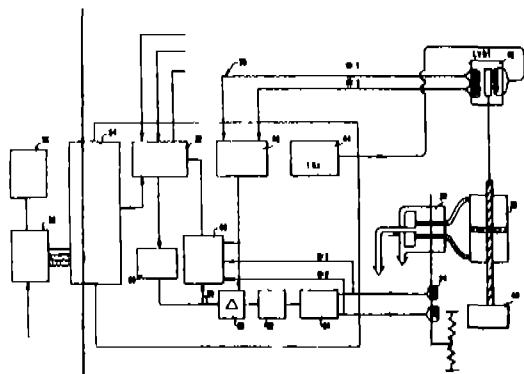


Fig. 2

Compl. Specn. 13 Pages.

Drg. 1 Sheet.

CLASS : 47-C.
Int. Cl. : C 10 b 27/00.

169098

A FILTER SHIELD ASSEMBLY

Applicant : INTERNATIONAL CONTROL AUTOMATION FINANCE S.A., OF VILLE DE LUXEMBOURG, 16 RUE DES BAINS, LUXEMBOURG.

Inventors : (1) GORDON DAVIES WOOLBERT, (2) ARNOLD DANIEL TURRIN, (3) MARSHALL HILTON COOPER.

Application No. 974/Cal/1988, filed on November 28, 1988.

[Divisional of Appn. No. 824/Cal/1986 Ante-dated to November 14, 1986]

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims

A filter shield assembly for a filter attachable to a part of a gas sampling system, comprising :

a plurality of inner shields spacedly formed as a circle;

a plurality of spaced outer shields radially spaced from said inner shields; and

Mean for supporting said inner and outer shields to form an overlapping pattern whereby said outer shields overlap the space between said inner shields.

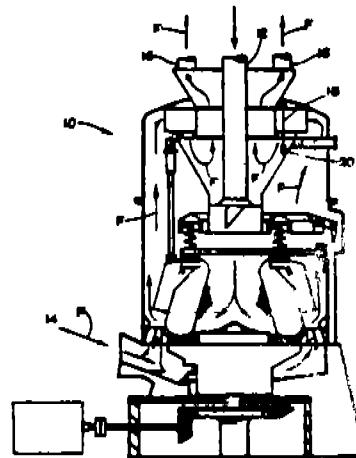


Fig. 1

CLASS : 54, 185-C.
Int. Cl. : A 23 f 3/42 5/48 5/50.

169097

METHOD OF STRIPPING AND RECOVERY OF AROMA AND FLAVOUR COMPOUNDS FROM PLANT MATERIALS.

Applicant : UNILEVER PLC, OF UNILEVER HOUSE, 81 ACKFRIARS, LONDON EC4, ENGLAND

Inventors : (1) JIMBIN MAI, (2) STEVEN A GOBBO, (3) DENNIS JAY BREITBART, (4) CRAIG DANIEL FISCHER.

Application No. 443/Cal/1988, filed on May 31, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

5 Claims

A method of stripping aroma and flavour compounds from a plant material, such as hereinbefore described which comprises the steps of subjecting the plant material to microwave radiation in the presence of moisture to release a substantial portion of said moisture, said aroma and flavour compounds as a vapour, and collecting the vapour as a condensate.

Compl. Specn. 24 Pages.

Drg. 1 Sheet.

CLASS : 47-C.
Int. Cl. : C 10 b 27/00.

169099

A GAS SAMPLING APPARATUS FOR A COAL MILL.

Applicant : INTERNATIONAL CONTROL AUTOMATION FINANCE S.A., OF VILLE DE LUXEMBOURG, 16 RUE DES BAINS, LUXEMBOURG.

Inventors : (1) GORDON DAVIES WOOLBERT, (2) ARNOLD DANIEL TURRIN, (3) MARSHALL HILTON COOPER

Application No. 975/Cal/1988, filed on November 28, 1988.

[Divisional of Appln. No. 824/C/1986 Ante-dated to 14th November, 1986]

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, C: 74A

15 claims

A gas sampling apparatus for a coal mill comprising :

a probe for withdrawing a sample of test gas containing particulate matter from coal mill;

a filter attached to said probe for filtering the gas drawn into said probe; and

a filter shield assembly such as herein described enclosing said filter and operable to prevent direct impingement of said particulate matter anywhere on said filter.

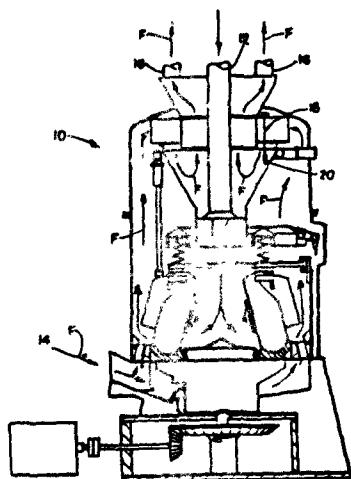


Fig. 1

Compl. Specn. 11 Pages.

Drg. 1 Sheet.

8 Claims

A savonius rotor assembly for interacting with a moving fluid, comprising :

(a) a support framework; and

(b) a rotor mounted on the support framework for rotation about an axis, the rotor having two blades disposed symmetrically about the axis each of the blades having an outer edge and an inner edge with respect to the axis, the outer edges of the blades lying on a circle defining a diameter of the rotor, the blades further having a first curved portion and a second curved portion, the first curved portion beginning at the outer edge and terminating at the second curved portion with the first curved portion defining a surface generally concave with respect to the axis, the first curved portion having a radius of curvature which becomes progressively less from the outer edge to the second curved portion, the second curved portion coming progressively closer to a plane containing the axis and the outer edge of the blade as the second curved portion extends from the first curved portion to the inner edge of the blade, the maximum displacement of the blades from the plane being less than one-quarter of the diameter of the rotor and the second edge of the deflector member being positioned on the same side of the plane as the first edge of the deflector member.

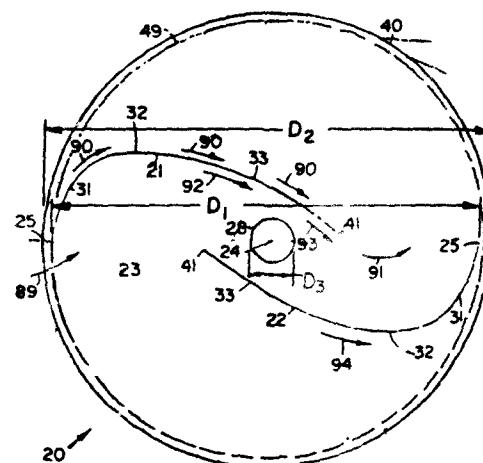


Fig. 1

Compl. Specn. 30 Pages.

Drg. 6 Sheets.

CLASS : 190-C.
Int. Cl. : F 01 d 5/00.

169100

IND. CLASS : 40-F—[GROUP-IV(1)].
Int. Cl. : G 05 B 13/00: 19/00.

169101

A SAVONIUS ROTOR ASSEMBLY FOR INTERACTING WITH A MOVING FLUID.

A PROCESS CONTROLLER FOR CONTROLLING A PROCESS ACTING ON AN OBJECT WITH TWO DEGREES OF FREEDOM.

Applicant & Inventor : ALVIN HENRY BENESH, OF 120 SOUTH ADAMS AVENUE, PIERRE, SOUTH DAKOTA 57501, U.S.A.

Applicant : KABUSHIKI KAISHA TOSHIBA, OF 72 HORIKAWA-CHO, SAIWAI-KU, KAWASAKI-SHI, 210 JAPAN, A JAPANESE COMPANY.

Application No. 727/Cal/1989, filed on September 04, 1989.

Inventor : KAZUO HIROI.

[Divisional of Appln. No. 830/Cal/1986 Ante-dated to November 14, 1986]

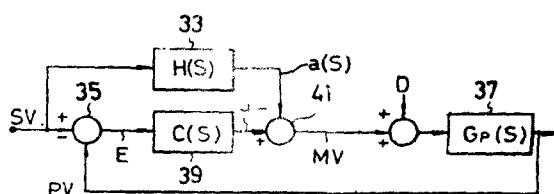
Application No. 148/Mas/1986, filed March 4, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

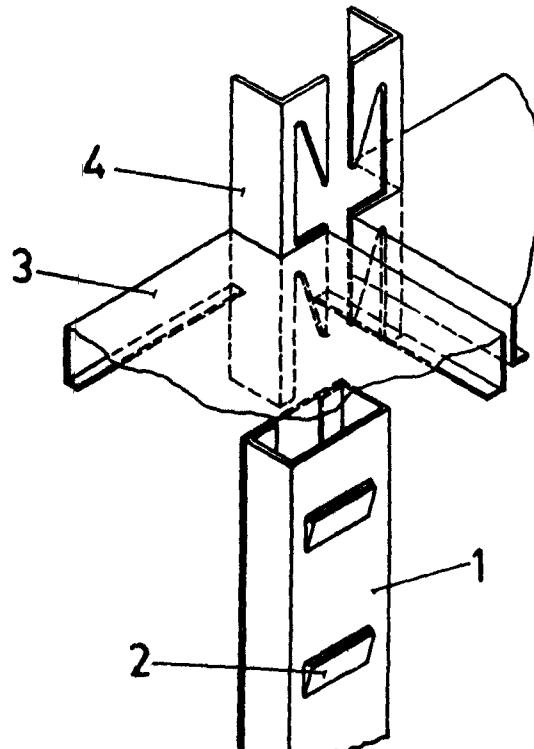
12 Claims

A process controller for controlling a process acting on an object, with two degrees of freedom comprising : input means for supplying a set value to the object; means for obtaining a control value from the object; deviation calculating means for calculating the deviation between the control value and the set value; control operation means for applying to said deviation at least one proportional and integral operation using at least one control parameter for optimally suppressing variations due to an external disturbance thereby deriving an adjusted set value for supplying to said object; and compensation operation means for correcting said control parameter(s) for optimally suppressing variations in the set value using at least one adjusting parameter, whereby the or one of said control parameters comprises integral time and the or one of said adjusting parameters adjusts integral time for enabling the process controller to control the process whilst simultaneously optimally suppressing variations due to the external disturbance the changes in the set value.



Compl. Specn. 99 Pages.

Drg. 38 Sheets.



Compl. Specn. 5 Pages.

Drg. 1 Sheet.

IND. CLASS : 86-A—[GROUP-LXVI(4)].
Int. Cl.⁴ : A 47 B 47/00; 57/00.

169102

A MEDIUM DUTY ADJUSTABLE RACKING SYSTEM.

Applicant & Inventor ARULDOS PATRICK, TRADING AS SPACEWAY DESIGN INDUSTRIES, 48/A/153, 4TH 'N' BLOCK, RAJAJI NAGAR, BANGALORE-560 010, KARNATAKA STATE, AN INDIAN.

Application No. 867/Mas/1986, filed November 5, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Madras Branch.

2 Claims

A medium duty adjustable racking system which comprises two or more box type upright columns with panels for placement on the columns, the said columns being provided with spaced louvers on their mutually facing sides and being arranged in rows and optionally fixed to the ground by known means, and characterized in that the pairs of adjacent panels are located in the same column by means of end connectors having wedge shaped projections fixed to the ends of the panels and co-operating with the louvers.

IND. CLASS : 33-A—[GROUP-XXXIII(3)].
Int. Cl.⁴ : C 21 C 5/46.

169103

AN IMPROVED TUNDISH FOR CONTINUOUSLY CASTING STEEL FROM MOLTEN STEEL.

Applicant : INLAND STEEL COMPANY, OF 30 WEST MONROE STREET, CHICAGO, IL 60603, U.S.A., A DELAWARE CORPORATION, U.S.A.

Inventors : (1) RICHARD CHARLES JACKSON, (2) DANIEL RELLIS, (3) HOWARD MAYNARD PIELET, (4) DEBANSHU BHATTACHARYA, (5) LARRY ALEXANDER FRANK, (6) JOHN ROBERT KNOEPKE AND (7) PURNENDU DASGUPTA.

Application No. 935/Mas/1986, filed December 2, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

20 Claims

An improved tundish for continuously casting steel from molten steel comprising a tundish bottom, opposed tundish sidewalls extending upwardly from the periphery of said bottom, an outlet

opening at said bottom, said outlet opening having a top and having means for forming a descending stream of molten metal, means for receiving molten metal within said tundish at an entry location spaced linearly along the tundish bottom from said outlet opening, and structural elements on the tundish bottom interposed in the path followed by molten steel flowing from said entry location to said outlet opening, a structure consists of one or more of the following expedients:

(a) said top of said outlet opening is raised above at least that part of the tundish bottom surrounding and adjacent said outlet opening;

and said tundish bottom comprises a portion sloping upwardly to the raised top of said outlet opening on opposite sides of said opening without seams, having a vertical component, in the locations on said tundish bottom portion surrounding and adjacent said outlet opening at which undissolved, molten alloying ingredient accumulates;

(b) a refractory dam surrounding said outlet opening, located between said entry location and said outlet opening and extending upwardly from the tundish bottom;

a tundish bottom portion sloping upwardly to said surrounding dam, around the outer side of the dam, said upwardly sloping bottom portion having means for preventing said undissolved, molten alloying ingredient from accumulating around the outer side of said dam throughout a continuous casting operation;

(c) a sump at the bottom of said tundish, said sump being located between said entry location and said outlet opening and lying across the path of molten metal flowing from said entry location to said outlet opening;

said tundish bottom having a part which is located upstream of said sump and a part which is located downstream of said sump;

said sump having a floor which is lower than the top of said outlet opening and lower than the tundish bottom parts located upstream and downstream of the sump;

said entry location being at the tundish bottom part which is upstream of the sump;

said outlet opening being located on the tundish bottom part which is downstream of the sump;

said entry location and the bottom part which contains said entry location being physically separated, by the sump, from the bottom part which contains said outlet opening, whereby said molten metal flowing from said entry location to said outlet opening flows along a path crossing said sump;

said sump comprising means for collecting undissolved, molten alloying ingredient as a result of the difference in density between said molten alloying ingredient and said molten steel;

(d) an elongated refractory dam interposed between said entry location and said outlet opening, said elongated dam extending from one tundish sidewall to the other sidewall, upwardly from the tundish bottom above the level of the outlet opening, said dam being devoid of flow passageways to a height greater than the thickness of the layer of undissolved, molten alloying ingredient normally allowed to accumulate on the tundish bottom;

said dam resting a top said tundish bottom;

a tundish bottom portion on the upstream side of said dam, and a tundish bottom portion on the downstream side of said dam;

said tundish bottom portion on the upstream side of said elongated dam sloping upwardly to a height above the tundish bottom portion on the downstream side of the dam, said upwardly sloping bottom portion having means for preventing said undissolved, molten alloying ingredient from accumulating at the upstream side of said dam;

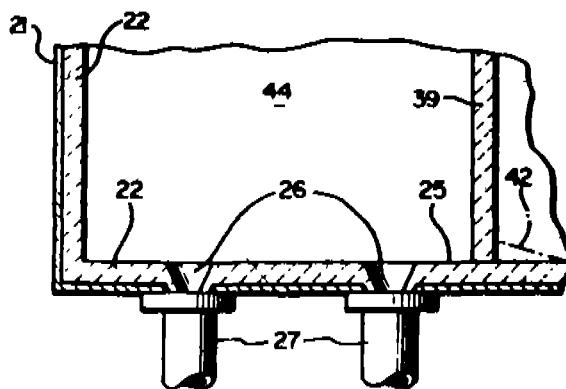
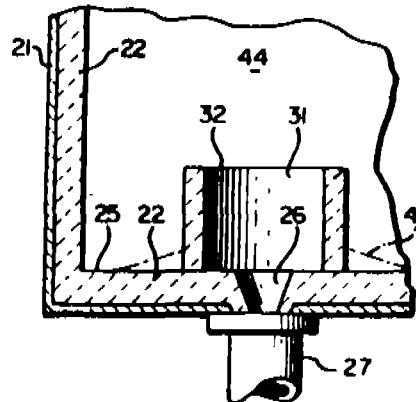
each of said expedients (a) to (d) having means for restraining undissolved, molten alloying ingredient from entering said outlet opening and for accumulating said undissolved, molten alloying ingredient on the tundish bottom at a location spaced from the outlet while allowing dissolved, molten alloying ingredient of the same composition to enter the outlet opening;

each of said expedients (a), (b) and (d) having means for preventing molten metal in said tundish from following a continuous descending or horizontal path across the tundish bottom downstream from said entry location to the top of said outlet opening;

expedient (a) having means for accumulating said undissolved, molten alloying ingredient on the tundish bottom at locations spaced from the outlet opening, on opposite unstream sides of said opening;

expedient (b) having means for accumulating said undissolved, molten alloying ingredient on the tundish bottom at locations spaced from the outer side of the surrounding dam, all around the dam;

and expedient (d) having means for accumulating undissolved, molten alloying ingredient on the tundish bottom at a location spaced from the outlet opening and from the elongated dam on the upstream side of the dam.



IND. CLASS : 9 A [GROUP XXXIX (1)]
Int. Cl.⁴ : C 22 C 1/04; 1/05; 1/06.

169104

A PROCESS FOR PREPARING A DISPERSION STRENGTHENED ALUMINIUM-TITANIUM ALLOY IN COMPOSITE POWDER FORM.

Applicant : INCO ALLOYS INTERNATIONAL, INC., OF HUNTINGTON, WEST VIRGINIA 25720, U.S.A., A U.S. COMPANY.

Inventors : (1) PAUL SANFORD GILMAN, (2) ARUN DIN-KARJATKAR, (3) STEPHEN JAMES DONACHIE, (4) WINFRED LESTER WOOD AND (5) WALTER ERNEST MATTSON.

Application No. 981/Mar/1986, filed, on December 16, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

5 Claims

A process for preparing a dispersion strengthened aluminium-titanium alloy in composite powder form comprising the steps of:

(a) blending about 62.8% aluminium powder and about 37.2% titanium powder;

(b) mechanically alloying the aluminium-titanium powder blend in a non-oxidizing environment, and

(c) heating the blend to a temperature below the solidus temperature of aluminum so as to form an aluminium-titanium intermetallic composite powder.

Compl. Specn. 14 Pages.

Drg. 3 Sheets.

IND. CLASS : 24 [GROUP LVIII (4)]
Int. Cl.⁴ : B 60 T 15/02.

169105

DUAL CIRCUIT BRAKE VALVE.

Applicant : ALLIED CORPORATION, OF COLUMBIA ROAD AND PARK AVENUE, MORRIS TOWNSHIP, MORRIS COUNTY, NEW JERSEY 07960, UNITED STATES OF AMERICA, A COMPANY ORGANISED UNDER THE LAWS OF COLUMBIA, U.S.A.

Inventors : (1) JAMES GARY PUGH, (2) DUANE RICHARD JOHNSON & (3) ROY EDWIN BARTHOLOMEW.

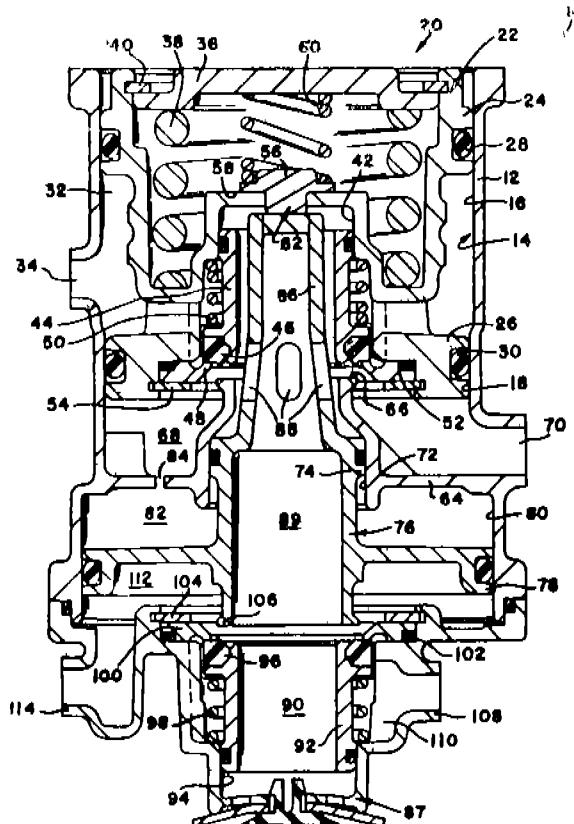
Application No. 992/Mar/1986, filed, on December 18, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

12 Claims

Dual brake valve comprising a housing (12) having a pair of inlets (34, 108), a pair of outlets (70, 114) and an exhaust (87), said housing (12) defining a bore (14) therewithin, an operator-actuated plunger assembly (20) slidably mounted in said bore (14), a first set of cooperating valve members (44, 48, 66) mounted in said bore (14) and adapted to control communication between said exhaust (87), one of said inlets (34), and a corresponding one of said outlets (70), a second

set of cooperating valve members (92, 100, 106) mounted in said bore (14) to control communication between said exhaust (87), the other inlet (108), and the other outlet (114), said first set of cooperating valve members (44, 48, 66) having a first valve seat (66) mounted on the wall of the bore (14), a second valve seat (48) mounted on the plunger assembly (20), a valve poppet (44) slidably mounted in said plunger assembly (20) for movement relative to the plunger assembly (20) and for movement with the plunger assembly (20) relative to the housing (12) whereby said valve poppet (44) is capable of being moved into and out of sealing engagement with said first and second valve seats (66, 48) resilient means (50) for urging said valve poppet (44) relative to the plunger assembly and means (76) operable in response to movement of the plunger assembly (20) for operating said second set of cooperating valve members (92, 100, 106) to control communication between said exhaust (87), the other inlet (108) and the other outlet (114), said plunger assembly (20) and the means (76) operable in response to the plunger assembly (20) are both guided for movement by the wall of the bore (14) independently of one another.



Application No. 1020/Mas/1986, filed, on 29th December, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

10 Claims

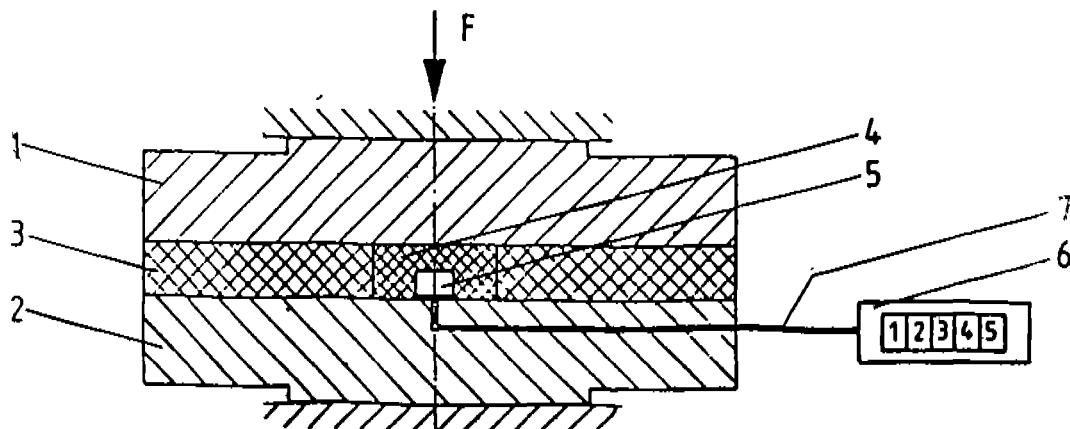
A flat-spread force measuring device comprising :

- a generally flat base member;
- a generally flat load receiving member arranged in spaced relationship to said base member;
- an essentially bubblefree elastomeric material interposed between said base member and said load receiving member and strongly adhered to opposing surfaces thereof;

— a plurality of pressure sensors arranged in contact with said elastomeric material in distance to each other and distributed over the total area defined by said base member and said load receiving member; and

— an evaluation means electrically connected to said pressure sensors for combining electrical signals received therefrom and representing local force components transmitted from said load receiving member through said elastomeric material to said pressure sensors;

wherein said base member and said load receiving member are connected at least at their peripheries, forming a stiff rigid main body and leaving at least one flat cavity therebetween completely filled with said essentially bubblefree elastomeric material, said or each cavity having an opening for establishing a contact between said elastomeric material and a said pressure sensor associated to said cavity.



Compl. Specn. 35 Pages

Drg. 10 Sheets.

IND. CLASS : 15-B—[GROUP-LIV(1)]
Int Cl. F 16 C 25/08, 33/58, 33/64

169107

PRE-STRESSED BALL BEARING.

Applicant : NADELLA, OF 61, ROUTE DE FOECY, 18101
VIERZON, FRANCE, A FRENCH COMPANY.

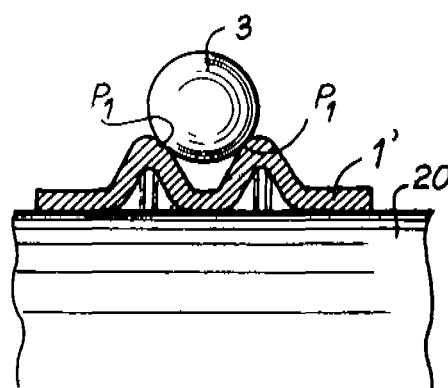
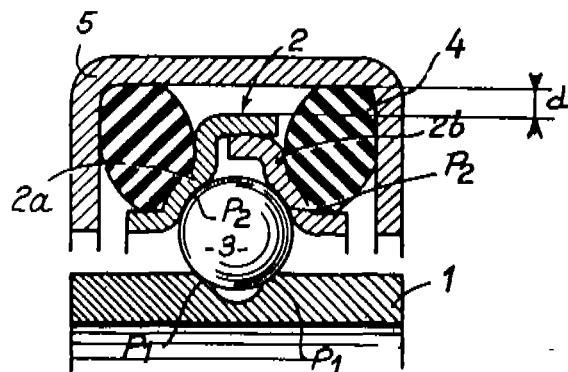
Inventor : STEPHAN GERARD

Application No. 70/Mas/1986 filed, on February 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

7 Claims

A pre-stressed ball bearing comprising a case, an inner ring, an outer ring, rolling members disposed between the inner and outer rings, at least one elastically yieldable element compressed in the case between the case and one of the rings for applying the rolling members in contact with the inner and outer rings along circular raceways, wherein the rolling members are balls, each rolling member travels along four contact raceways of which two raceways are located on the inner ring and two raceways are located on the outer ring, one of the rings is formed by two parts on each of which parts is located one of the contact raceways and which parts are freely movably engage one inside the other to transmit the pre-stress of the elastically yieldable element to the balls, and set-back depressions are provided on the raceways of the bearing to ensure that the balls locally avoid the pre-stress.



Compl. Specn. 13 Pages.

Drg. 2 Sheets.

IND. CLASS : 69-O—[GROUP-LIX(1)].
Int. Cl.⁴ : H 01 H 73/06.

169108

LOW VOLTAGE CURRENT BREAKING DEVICE.

Applicant : MERLIN GERIN, A FRENCH COMPANY, OF
RUE HENRI TARZE-F 38050 GRENOBLE CEDEX,
(FRANCE).

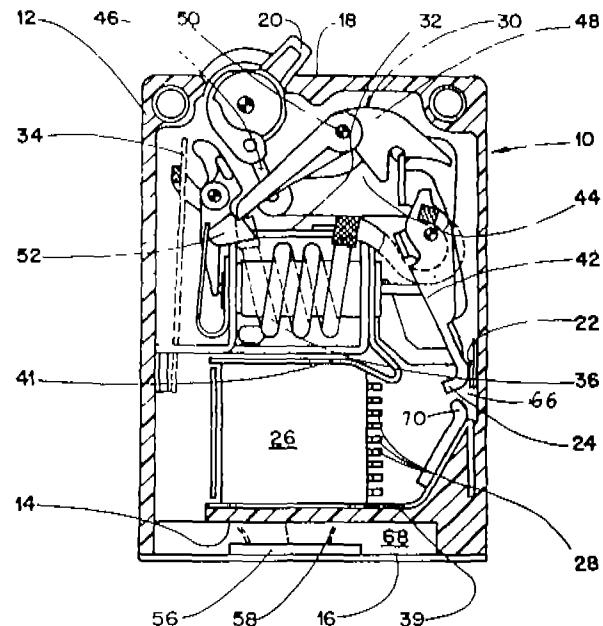
Inventors : (1) JEAN-LUC MERTZ, (2) MICHEL LAZARETH
AND (3) HUBERT GUERIN.

Application No. 135/Mas/1987, filed, on February 26, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents
Rules, 1972), Patent Office, Madras Branch.

8 Claims

Low voltage current breaking device comprising a modular case (12) having a front face (18), two large parallel side faces (72, 74), and two small side faces (76, 78) each presenting a shoulder (80) to house a pair of power terminals (38, 40) and at least one control terminal (59, 60), said shoulders being located opposite the front face towards the rear part of the modular case, a solid-state switch (56) and a pair of separable contacts (22, 24) housed in the said modular case (12), an actuating mechanism (30) having an operating toggle (20) located on said front face (18) and a trip unit (32) for separating the contacts (22, 24) when a fault occurs for protecting the solid-state switch (56), wherein the said modular case (12) has in its rear part a first housing (68) confined by an external metal plate (16) forming the base of the said modular case and an intermediate separating partition (14) of a second housing, and the said solid-state switch (56) is located in said first housing (68) in thermal contact with the metal plate (16), said separable contacts (22, 24) being housed in the second housing.



Compl. Specn. 11 Pages.

Drg. 2 Sheets.

IND. CLASS : 198-D—[GROUP-XXXIV(5)]
Int. Cl.⁴ : C 10 B 39/06.

169109

AN IMPROVED DOUBLE-WALLED COKE QUENCHING CAR.

Applicant : MANNESMANN AKTIENGESELLSCHAFT, OF
MANNESMANNUFER 2, D 4000 DUSSELDORF 1, FEDERAL
REPUBLIC OF GERMANY, A GERMAN COMPANY.

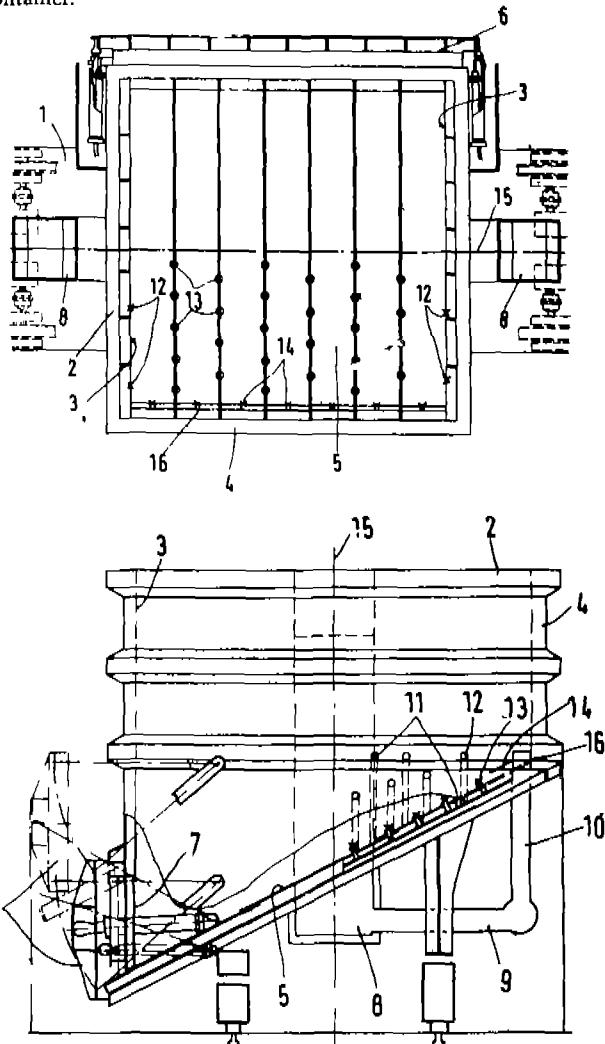
Inventors : (1) REINHOLD BECKMANN, (2) GERHARD
FRIEBE, (3) KLAUS GENTER, (4) GUNTER HOF AND (5) GER-
HARD WINZER.

Application No 173/Mas/1987, filed, on March 12, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents
Rules, 1972), Patent Office, Madras Branch.

3 Claims

Double-walled coke-quenching car comprising an inclined container bottom (5), a coke and water outlet opening in the bottom of the container (2) and feed pipes (8) for the quenching water disposed on both sides of the said container (2), said feed pipes (8) being connected to main and branch pipes which introduce the quenching water to the coke through the walls (4) of the container, the said quenching water inlet openings (13) of the said container bottom (5) of the container are disposed only in the area of the bottom which rises from the central plane (15) of the container to one container wall (4) and the axes of the water inlet openings (13) at right-angles to the said bottom container (5) of the said container (2), that water inlet openings (12) are disposed in the areas of the container walls which laterally delimit the bottom (5) of the container in the rising area and are disposed at a height up to shortly above the upper edge (16) of the bottom (5) of the container and that in addition there are provided in the container wall (4) which adjoins the upper edge of the bottom (5) of the container, and in the immediate vicinity of the upper edge of the bottom (5) of the container water inlet openings (14), the axis of inclination of which corresponds to that of the bottom (5) of the container.



Compl. Specn. 8 Pages.

Drg. 3 Sheets.

IND. CLASS : 126-D—[GROUP-LVIII(6)].
Int. Cl.⁴ : G 09 B 23/18.

169110

3 Claims

AN APPARATUS TO DEMONSTRATE A.C. AND/OR D.C. DYNAMOS.

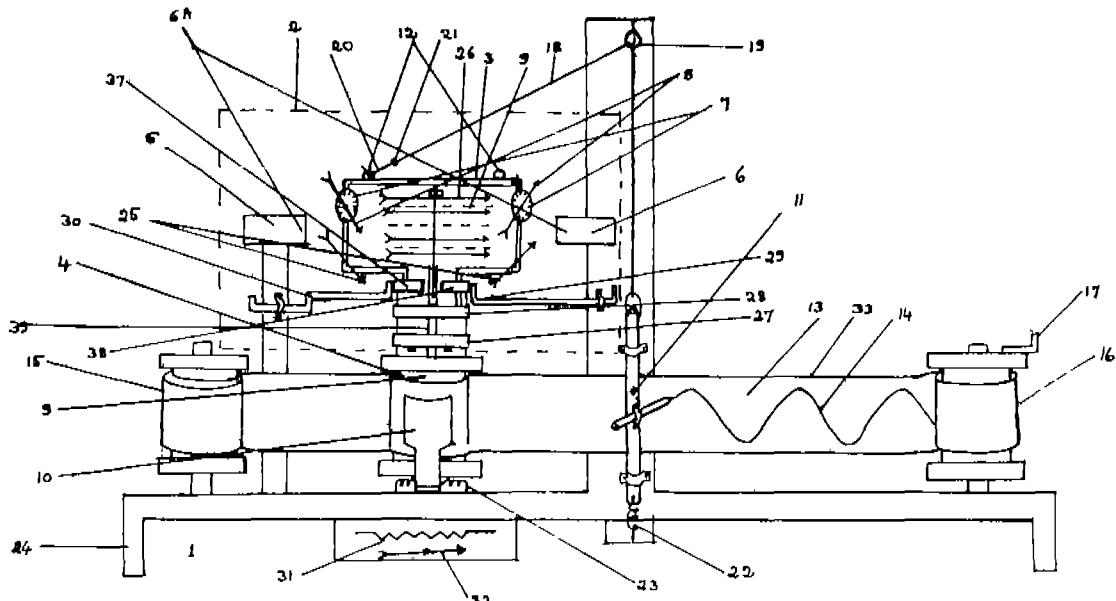
Applicant & Inventor : UPPINANGADY VARADARAYANA-YAK, B. Sc. B Ed., SCIENCE MASTER, 15—48, HAPPY VALLEY, KULSHEKAR, MANGALORE-575 005, KARNATAKA, INDIA, AN INDIAN CITIZEN.

Application & Provisional Specification No. 123/Mas/1984, filed on 23rd February, 1984.

Complete specification left May 14, 1985.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

An apparatus (1) to demonstrate A.C. and/or D.C. Dynamos (2) comprising a coil (3) mounted on a rotatable drum (4) having curved cylindrical surface, slip rings (27, 28) and split rings (37, 38) mounted on the said drum (4), brushes (29, 30) capable of contacting the slip rings (27, 28) or split rings (37, 38), magnet/s (6) having magnetic poles (6A), dial/s (7) mounted on the coil (3), magnetic pointer/s (8) pivoted on the dial/s (7), non-magnetic pointer/s (25) attached to the coil (3), the coil (3) being placed and rotatable between the magnetic poles (6A) in the magnetic field (9) of the magnet/s (6), a strip (13) for tracing sine wave curve (14), a pen (11) capable of transverse motion with respect to motion of the strip characterised in that the apparatus (1) comprises means (10) for pressing the strip (13) to the curved cylindrical surface of the drum (4), that links (12) are provided on the coil (3) for linking the pen (11).



Prov. Specn. 7 Pages.
Compl. Specn. 8 Pages.

Drg. 1 Sheet of size 33.00
cms. by 41.00 cms.

IND. CLASS : 187-C—[GROUP-LXI(2)].
Int. Cl.⁴ : H 04 K 1/00.

169111

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

A TELECOMMUNICATIONS SYSTEM, PROVIDING SECURE COMMUNICATION.

Applicant : THE PLESSEY COMPANY PLC, OF VICARAGE LANE ILLFORD, ESSEX IG1 410 ENGLAND, A BRITISH COMPANY.

Inventors : (1) ALEXANDER SCHRODER PHILIP, (2) MAHIR OZDAMAR AND (3) GEOFFREY CHOPPING.

Application No. 903/Mas/1986, filed on November 25, 1986.

Convention date December 11, 1985; (No. 8530485; United Kingdom).

5 Claims

A telecommunication system providing secure communication comprising at least two communication exchanges and a plurality of user equipments, wherein each user equipment is provided with a store which holds a user variable data word particular to that user, and, each exchange is provided with a store which holds all the user variable data words of the users connected to it, and, each exchange is provided with means to generate its own random variable data word for a first user to make a secure call to a second user, said first user equipment has encryption and transmitting means for encrypting a call request using its particular user variable data word and transmitting the encrypted data to its own said communication exchange which has decrypting means, generation means, encryption means and transmitting means for decrypting the call request using the

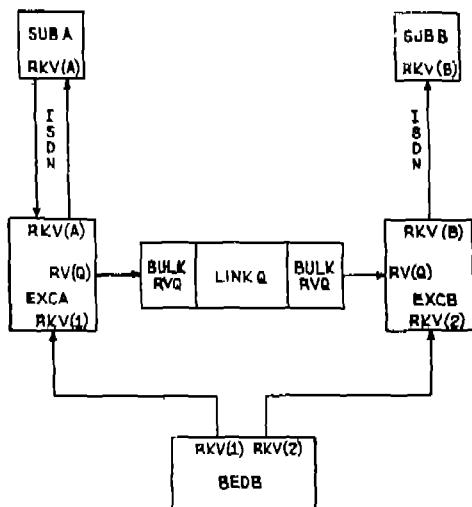
particular user variable data word, generating the random variable data word used for the secure call, encrypting the random variable data word with the particular user variable data word and transmitting the encrypted data to the first user; said communication exchange also having a further transmitting means for transmitting the random variable data word to the second user's, communication exchange which is also provided with encryption means and transmitting means for encrypting the random variable data word with the user variable data word particular to the second user and transmitting the encrypted data to the second user.

Ind. Cl. 68-C--[GROUP-LVII(3)].
Int. Cl. H 02 F 7/14

169112

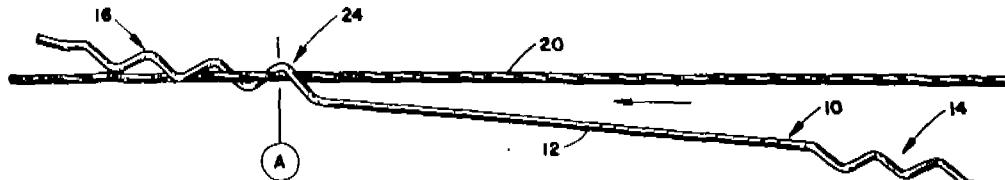
A DEVICE FOR DAMPENING WIND INDUCED VIBRATIONS IN AERIAL CABLES.

Applicant : PREFORMED LINEL PRODUCTS COMPANY,
A CORPORATION OF THE STATE OF OHIO, U.S.A. OF 660
BETA DRIVE, CLEVELAND, OHIO 44143, U.S.A.



Compl. Specn. 12 Pages.

Drg. 1 Sheet.



Compl. Specn. 13 Pages.

Drg. 1 Sheet of size
33.00 cms. by 41.00. cms.

Ind. Cl. : 185 E [GROUP XVIII].
Int. Cl. : A 23 F 5/10; A 23 N 12/00.

169113

PROCESS AND APPARATUS FOR IMPROVING ROASTED COFFEE.

Applicant : JACOBS SUCHARD GmbH, OF LANGEMARCKSTR. 4-20, D-2800 BREMEN 1, WEST GERMANY, A GERMAN COMPANY.

Inventor : HARRY BONNE.

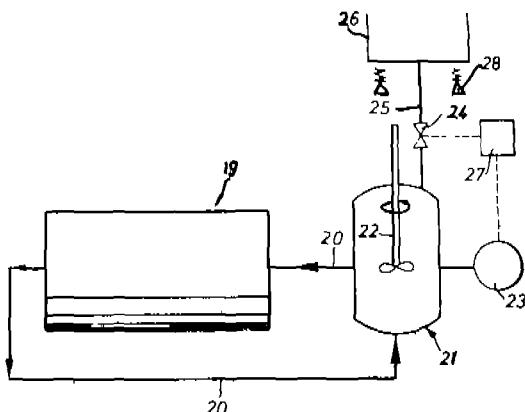
Application No. 932/Mas/86, filed on 2nd December, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

10 Claims

Process for preparing improved roasted coffee comprising the steps of enriching raw coffee by heating the same before roasting with a mixture containing an aqueous solution of saccharide and an

aqueous solution of water soluble extracts of raw coffee, the concentrations of the extracts present in the mixture is so selected that it is in equilibrium with the water extractable components present in the raw coffee being treated.



Compl. Specn. 14 Pages.

Drg. 2 Sheets.

Ind. Cl. : 85 G [GROUP XXXI]
Int. Cl. 4 F 27 B 3/02

169114

AN APPARATUS FOR FLUIDISED COMBUSTION.

Applicant : CHARBONNAGES DE FRANCE (ETABLISSEMENT PUBLIC), OF 9 AVENUE PERCIER, 75008 PARIS, FRANCE, A FRENCH COMPANY AND INSTITUT FRANCAIS DU PETROLE, A FRENCH BODY CORPORATE, OF 4 AVENUE DE BOISE PREAU, 92502 RUEIL MALMAISON FRANCE.

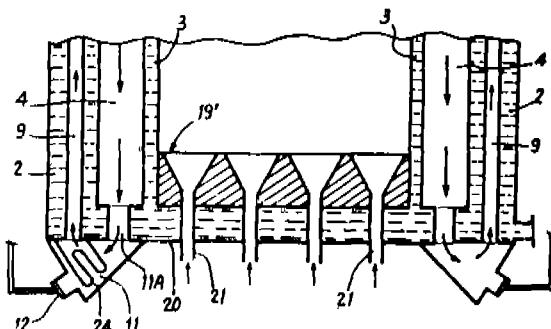
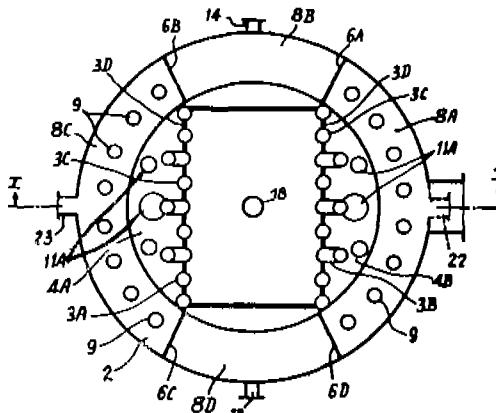
Inventors (1) MARLAIR GUY & 2nd PETROVIC ALEX-
ANDRE

Application No 978/Mas/86, filed on 16th December, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch

12 Claims

An apparatus for fluidised combustion comprising a central hearth (1) with a side wall (3) and a fluidisation grid (19,19') for supporting a fluidized bed, a hollow peripheral enclosure (2) enclosing the central hearth (1) around the side wall (3), means for the entry and exit of circulation water enclosing the central hearth (1), and a fume exit conduit (7) connected to the central hearth (1), wherein the peripheral enclosure (2) is substantially concentric with the central hearth (1) defining at least one intermediate volume (4) in communication with the central hearth (1) in its upper part by way of openings for fumes (5), the said intermediate volume (4) being connected at its lower part at the level of the fluidisation grid (19,19') to one end of the fume tubes (9) extending upwards parallel to the said central hearth (1) within said peripheral enclosure (2) over a substantial part of their length and the other end of the fume tube (9) is connected to said fume exit conduit (7).



Compl. Specn 16 Pages

Drg. 2 Sheets.

Ind. Cl. - 9-A [GROUP XXXIII(1)].
Int. Cl.⁴ : C 22 C 1/04; 1/05; 1/06

A METHOD FOR FORMING ALUMINUM-BASE ALLOYS BY MECHANICAL ALLOYING TECHNIQUES.

Applicant: INCO ALLOYS INTERNATIONAL, INC., OF HUNTINGTON WEST VIRGINIA 25720, UNITED STATES OF AMERICA, A U.S. COMPANY.

Inventors: (1) PAUL SANFORD GILMAN, (2) ARUN DIN-KAR JATKAR, (3) STEPHEN JAMES DONACHIE, (4) WIN-FRED LESTER WOODARD III & (5) WALTER ERNEST MAATSON.

Application No. 982/Mas/86, filed on 16th December, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

6 Claims

A method for forming aluminum-base alloys by mechanical alloying techniques comprising the steps of:

- (a) blending aluminum powder and at least one non-aluminum element such as titanium, nickel, iron, to form a first blend, the percentage of the non-aluminum element being in excess of the percentage of the non-aluminum element in the aluminum-base alloy,
 - (b) mechanically alloying the first blend in a known manner.

- (c) adding an additional quantity of aluminum powder to the first alloyed blend of step (b) blend to raise the percentage of the aluminum to form a second blend, and
- (d) mechanically alloying the second blend in a known manner to form the final alloy.

Compl. Specn. 15 Pages.

Drg. 3 Sheets.

- (f) subjecting the membrane/matrix combination to pressure to embed at least a portion of the matrix into the membrane by first contacting and heating at zero pressure for 1 minute, subsequently by application of a pressure of from 1 to 8 tons per square inch for from 0.2 to 2 minutes.

Compl. Specn. 19 Pages.

Drg. 1 Sheet.

Ind. Cl. : 32 E [GROUP-IX (1)]. 169116
 Int. Cl.⁴ : C 25 B 9/00; 11/03; 11/12.

A METHOD FOR FORMING A SOLID POLYMER ELECTROLYTE STRUCTURE.

Applicant : THE DOW CHEMICAL COMPANY, A CORPORATION ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, U.S.A., OF 2030 DOW CENTER, ABBOTT ROAD, MIDLAND, MICHIGAN 48640, UNITED STATES OF AMERICA.

Inventors : (1) JOHN MARKMCINTYRE (2) JEFFREY DAVID BIRDWELL (3) BRUCE RICHARD SMITH & (4) WILLIAM PAUL.

Application No. 990/Mas/86, filed on 18th December, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

9 Claims

A method of preparing a solid polymer electrolyte structure employing a fluorocarbon, membrane sheet, comprising the steps of:

- (a) forming a suspension of catalytically active, electrically conductive particles and a solvent for the fluorocarbon membrane sheet: wherein the catalytically active particles are selected from platinum group metals, platinum group metal oxides, ruthenium, iridium, rhodium, platinum, palladium, either alone or in combination with an oxide of a film-forming metal, and cobalt oxide either alone or in combination with other metal oxides,
- (b) applying the suspension to at least one side of the fluorocarbon membrane sheet while said sheet is in its thermoplastic form having thickness of from 0.0025 to 0.4 mm so that the said catalytically active particles are present at level of from 0.4 to 25 milligram per square centimeter of membrane area,
- (c) removing substantially all of the solvent leaving the particles on the membrane sheet,
- (d) pressing at least a portion of the particles into the membrane sheet,
- (e) optionally contacting the side of the so-treated membrane having the particles on the surface with an electrically conductive, hydraulically permeable matrix, such as carbon cloth, metallic screen having a resistivity of from 600,000 to 1375 microohm-centimeters, and

Ind. Cl. : 52-A & 127-I [GROUPS-XXIV(1) & LXV (1)]. 169117
 Int. Cl.⁴ : B 31 B 37/14.

AN IMPROVED APPARATUS FOR MAKING AND STACKING OF INDIVIDUAL BAGS MADE FROM A FLATTENED THERMOPLASTIC TUBULAR WEB MATERIAL.

Applicant : FMC CORPORATION, A DELAWARE CORPORATION, OF 200 EAST RANDOLPH DRIVE, CHICAGO, ILLINOIS 60601, UNITED STATES OF AMERICA.

Inventor : GEORGES LAGAIN.

Application No. 1013/Mas/86, filed on 24th December, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

7 Claims

An improved apparatus for making and stacking of individual bags made from a flattened thermoplastic tubular web material, having a frame, a guiding path means for guiding the flattened tubular web material into the apparatus,

a pair of lower and upper roller means (6, 7) positioned in the path for intermittently moving the tubular web material into the apparatus, the lower roller fixed to the frame below the path and the upper roller rockably mounted to the frame above the path for vertical movement away from the lower roller,

a pair of lower and upper welding jaw means (8, 9) positioned in the path downstream from the roller means for welding the walls of the tubular web material together along a laterally extending strip forming a bottom welded bag segment, the lower jaw slidably mounted to the frame below the path and the upper jaw fixed to the frame above the path,

a cutting means (10) positioned in the path above the tubular web and downstream of the jaw means for cutting the top of the bottom welded tubular web into an individual bag, and

a bag stacking means (74, 74, 70, 72, 78) downstream of the cutting means for receiving and stacking individual cut bags in a pile; wherein the improvement comprises :

a first clamping means (5) comprising a vertically movable roller positioned in the path upstream from the roller means for intermittently clamping the tubular web material to the guiding path means (3, 39) concurrent with the raising of the upper roller and the simultaneous raising of the lower welding jaw for welding the walls of the tubular web material together along the laterally extending strip;

a second clamping means (71, 67) positioned in the path downstream of the cutting means carrying a depending resilient bar member (73) for intermittently clamping a trailing portion of the bottom welded bag segment to the bag

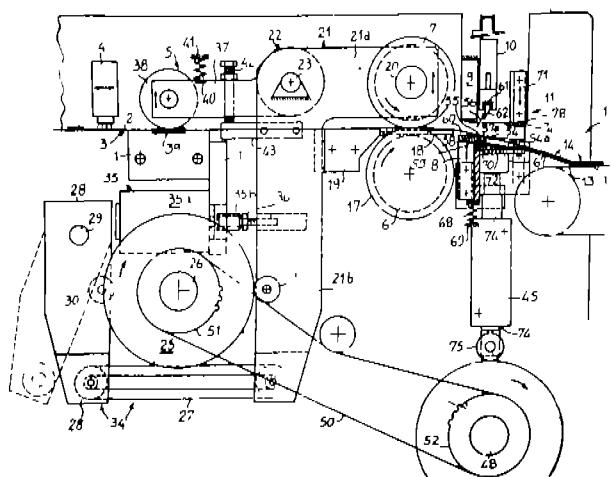
stacking means concurrent with the lowering of the cutting means for cutting the top of the bottom welded bag segment and forming the individual bag;

Ind. Cl. : 136-E [GROUP-XII].
Int. Cl. 4 · B 29 C 51/18

169118

a third clamping means (78, 70) mounted to the second clamping means between the resilient bar member and positioned in the path upstream from the second clamping means for intermittently clamping the immediate cut trailing portion of the formed individual bag to the bag stacking means (72);

and a fourth clamping means comprising a shoulder (54) on the lower jaw and a second resilient bar member (70) mounted on the bag stacking means for clamping the immediate cut bag to the second resilient bar member simultaneously with the lowering of the lower jaw and the raising of the second and third clamping means.



Compl. Specn. 21 Pages

Drg. 7 Sheets.

A DEVICE FOR DISTRIBUTING THERMOPLASTIC OR
LIKE MATERIAL.

Applicant : ONO, OF S A CAPITAL 8.800.000F, 28700 AVENUE,
FRANCE, OF FRENCH NATIONALITY.

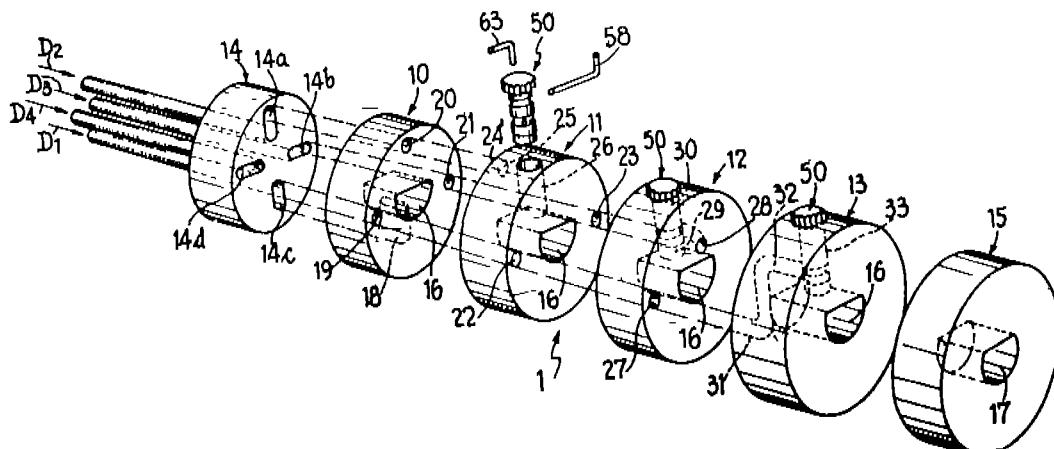
Inventor: DANIEL JACUES THOUCHET.

Application No 1023/Mas/86, filed on 30th December, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

10 Claims

A device for distributing thermoplastic or like material introduced into a feed assembly of a die for manufacturing multi-layer sheets connected to at least two inlets of thermoplastic or like material and consisting of an assembly of elements juxtaposed to define a central channel connected to the inlet of the die, an inlet unit disposed at one end of said assembly of juxtaposed elements and is provided with passageways connected to said inlets, each element comprising at least one radial channel opening into said central channel and communicating with one of the passageways of the inlet unit, said device comprising in the region of the junction of the radial channel supplying the additional material introduce into the basic receiving material previously introduced into the central channel, a progressive regulating means disposed in each corresponding element of the feed assembly so as to modify instantaneously in the plane of superimposition of the thermoplastic materials the cross-sectional shape of the corresponding stream of additional material in the central channel so as to obtain the desired distribution of this material in the sheet at the outlet of the die.



Compl. Specn. 19 Pages

Drg. 3 Sheets.

Ind. Cl. : 24-B [GROUP-LV].
Int. Cl.⁴ : F 16 D 65/02; 51/02.

169119

169120

AN INTERNAL SHOE DRUM BRAKE.

Applicant : LUCAS INDUSTRIES PUBLIC LIMITED COMPANY, A BRITISH COMPANY, OF GREAT KING STREET, BIRMINGHAM 19, ENGLAND.

Inventors : (1) WILFRIED THOBODOR GIERING, (2) SIGMAR HEINZ-PETER MICKE, (3) FRANZ-HELMUT HOLL.

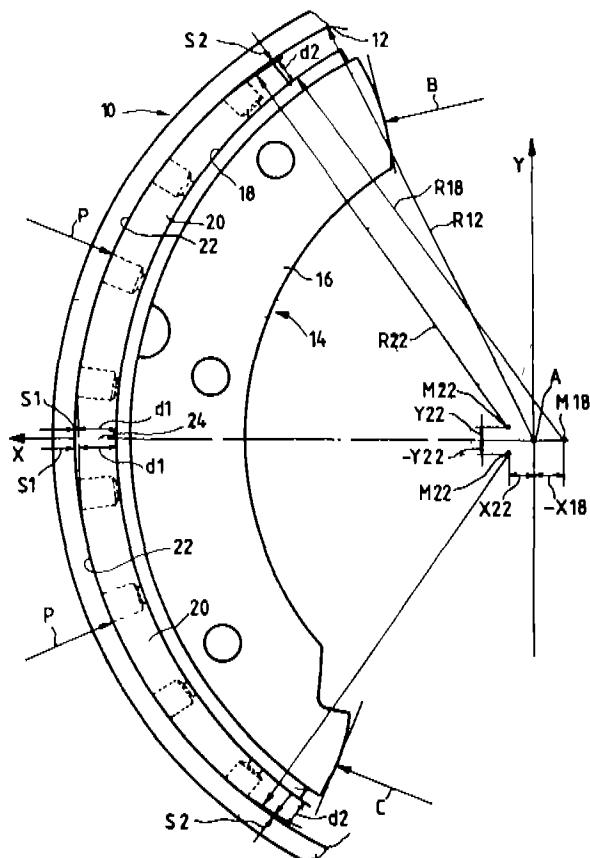
Application No. 386/Mas/87, filed on 26th May, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

3 Claims

An internal shoe drum brake, comprising

- a brake drum (10) which has a circular cylindrical internal braking surface (12) and
- at least one brake shoe (14) which comprises a lining support member (16) and two lining sections (20) fastened one behind the other in circumferential direction to the support member (16).
- each lining section (20) having an approximately circular cylindrical friction surface (22) the radius of curvature (R22) of which is smaller than the radius of curvature (R12) of the braking surface (12) and the center of curvature (M22) of which is located such that only a central portion of the friction surface (22) engages the braking surface (12) upon actuation of the brake, characterized in that, in a rectangular co-ordinate system (x, y) the origin of which lies on the axis (A) of the brake drum (10) and the abscissa (X) of which is formed by a center line between the two lining sections (20), the center of curvature (M22) of each friction surface (22) has a distance (y22) from the abscissa which is smaller than the distance (x22) from the ordinate, upon actuation of the brake.



Compl. Specn. 7 Pages.

Drg. 1 Sheet.

Ind. Cl. : 140 B1.
Int. Cl.⁴ : C07C 7/10.

PROCESS FOR THE PRODUCTION OF HYDROCARBONS.

Applicant : UNION RHEINISCHE BITUMENKOHLEN KRAFTSTOFF AG. OF POSTFACH 1663, D-5047, WESSELING, WEST GERMANY, A GERMAN COMPANY

Inventors : JOACCHIM KORFF, AXEL GIEHR, KARL-HEINZ KEIM AND KURT ERDT.

Application for Patent No. 44/Del/87, filed on 21st January, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Branch New Delhi-110 005.

13 Claims

A process for reprocessing carbon-containing synthetic or substantially synthetic organic waste materials such as herein described for the production therefrom of hydrocarbons of the kind described herein which comprises hydrogenating said waste materials with a hydrogen donor selected from one or more of hydrogen, hydrogen containing gases such as herein described and hydrogen donor solvents such as herein described, characterised in that:

- at least part of said carbon-containing waste materials are subjected to a pretreatment by subjecting said materials to hydrogenation with said hydrogen donors and/or thermal treatment in an inert atmosphere at a temperature of from 75°C to 600°C, a pressure of from 1 to 600 bars and for a residence time of from 1 minute to 6 hours, and
- the pretreated and any balance waste materials are hydrogenated by means of said hydrogen donors at a temperature of from 200°C to 600°C, a pressure of from 30 to 500 bars and for a residence time of from 1 minute to 8 hours.

Compl. Specn. 29 Pages

Ind. Cl. : 14C.
Int. Cl.⁴ : C 12 N 11/00.

169121

A PROCESS FOR THE PREPARATION OF SOLID SUPPORT HAVING COENZYME IMMOBILIZED THEREON FOR USE IN BIOMOLECULAR ELECTRONICS OR BIO-BATTERIES.

Applicant : NATIONAL RESEARCH DEVELOPMENT CORPORATION OF INDIA (A GOVERNMENT OF INDIA ENTERPRISE) 20-22, ZAMROODPUR COMMUNITY CENTRE, KAILASH COLONY EXTENSION, NEW DELHI-110048, INDIA.

Inventors : RATNA SURESH PHADKE, HARIPAL SINGH MURLISING SONAWAT & GIRJESH GOVIL.

Application for the Patent No. 222/Del/87, filed on 17th March, 1987.

Complete Specification left on 19th May, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Branch New Delhi-110 005.

9 Claims

A process for the preparation of solid support having coenzymes immobilized thereon for use in biomolecular electronics or bio-batteries which comprises in subjecting protoporphyrin IX to the step of esterification, treating said esterified protoporphyrin IX with ferrous sulphate to produce heme dimethyl ester, subjecting said heme dimethyl ester to the step of formulation for introduction of CHO group immobilizing said heme at the meso position on a treated carbon surface/solid support as herein described followed by coupling apo-cyt-C and insertion of iron in protoporphyrin ring.

Provl. Specn. 4 Pages.
Compl. Specn. 11 Pages.

Drg. 2 Sheets.

Ind. Cl. : 80K
Int. Cl. : B01D, 33/02.

169122

2 Claims

A DOUBLE BELT FILTER FOR DEWATERING THE SLUDGE MATERIAL.

Applicant : DEWAN KRAFT SYSTEM PVT. LTD., N-127, GREATER KAILASH, PART-I NEW DELHI-110048, INDIA, AN INDIAN COMPANY.

Inventor : DEEPAK DEWAN.

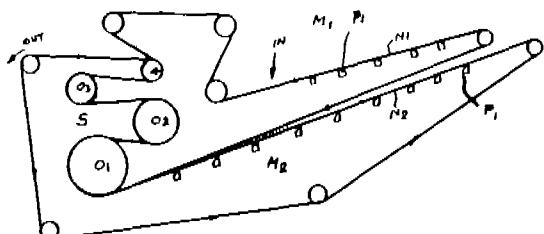
Application for the Patent No. 768/Del/87, filed on 31st August, 1987.

Complete Specification left on 31st October, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Branch New Delhi-110 005.

6 Claims

A double belt filter for dewatering sludge material comprising a gravity zones (A1) having a single belt (B1), a wedge zone (A2) having another belt (B2) converging towards said single belt (B1) to form a wedge, a shear zone (A3) consisting of said belts (B1 & B2) in an overlying relationship to each other, and a plurality of S zones being provided in the said shear zone (A3) to keep the said belts in a S formation.



Provl. Specn. 6 Pages.
Compl. Specn. 10 Pages.

Drg. 1 Sheet

Ind. Cl. : 136E.
Int. Cl. : C03B 9/00.

169123

A MOULDING DEVICE FOR PREPARING SPHERICAL SEGMENT MIRRORS USING MIRROR FILMS BONDED TO FIBREGLASS REINFORCED PLASTIC DISHES.

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventors : SODANKUR THIMMANNABHAT RAJAN & SHARAD DATTATRAYA GOMKALE.

Application for the Patent No. 1081/Del/87, filed on 16th December, 1987.

Complete Specification left on 16th March, 1989.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Branch New Delhi-110 005.

A moulding device for preparing spherical segment mirrors using mirror films bonded to fibreglass reinforced plastic dishes, which comprises of a top open cylindrical shell (5) with clamping rings (4) to clamp the flexible sheet on cylindrical shell (5) providing the boundary support, having a horizontal surface plate (6) to which are attached equidistantly placed screws (2) with vernier heads (8) placed in concentric circles for controlling the height adjustments of concentric rings (1) which form the mould profile.

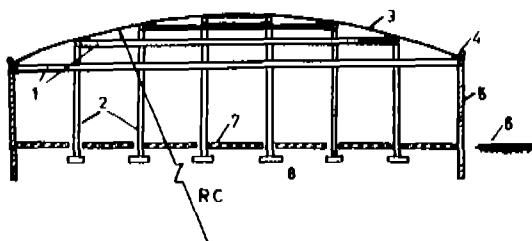


Fig. 4

Provl. Specn. 4 Pages.
Compl. Specn. 6 Pages.

Drg. 1 Sheet

Ind. Cl. : 32B.
Int. Cl. : C07B 35/02.

169124

A PROCESS FOR THE HYDROGENATION OF OILS AND OTHER UNSATURATED COMPOUNDS.

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventor : MIRZA MOHAMMED TAQUI KHAN & MOHAMMED RAFIQ SIDDIQUI.

Application for Patent No. 214/Del/88, filed on 17th March, 1988.

Divisional to Application No. 1093/Del/85, filed on 20th December, 1985.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Branch New Delhi-110 005.

4 Claims

A process for the hydrogenation of oils and other unsaturated compounds such as herein described which comprises reacting the said oils or the unsaturated compounds in a solvent such as herein described with a clay loaded metal catalyst whenever prepared by a process as claimed in claim of complete specification in respect of Application No. 1093/Del/85 at a temperature 30-40°C (ambient temperature) and at a pressure of hydrogen in the range of 0.4 to 1 atmosphere.

Compl. Specn. 10 Pages.

Drg. NIL

Ind. Cl. : 83 A2
Int. Cl.⁴ : A01J 15/60.

A PROCESS FOR THE PREPARATION OF HARD BUTTER HAVING REDUCED 9, 10-DIHYDROXYSTEARIC ACID (DHS) AND DIGLYCERIDES (DGS) CONTENT FROM SAL FAT USEFUL AS COCOA BUTTER EXTENDER.

Applicant: COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFT MARG, NEW DELHI-110 001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT, (ACT XXI OF 1860)

Inventors: SUNKI REDDY, YELLA REDDY & JAMBUR VENKATESHIAN PRABHAKAR.

Application for Patent No. 215/Del/1988, filed on 17th March 1988

Divisional to Application No. 973/Del/86 filed on 05 November 1986. Ante-date to 05 November 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110 005.

2 Claims

A process for the preparation of hard butter having reduced 9, 10 dihydroxystearic acid (DHS) and diglycerides (DGS) content from sal fat useful as cocoa butter extender which comprises heating sal fat to around a temperature in the range of 50—55°C till a clear melted liquid is obtained, characterised by cooling the molten fat to a temperature of around 32—38°C with occasional stirring & maintaining at the same temperature for 6—8 hours, removing the solidified DHS & DGS components by filtration, by known methods.

Compl. Specn. 7 Pages.

Ind. Cl. : 32E, 90 I
Int. Cl.⁴ : C03C 13/04, C08F 14/06.

A PROCESS FOR PELLETIZING VINYL CHLORIDE HOMOPOLYMER & GLASS FIBERS.

Applicant: THE B.E. GOODRICH COMPANY, A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF NEW YORK, OF 277 PARK AVENUE, NEW YORK, NEW YORK 10017 AND WITH BUSINESS OFFICES AT 500 SOUTH MAIN STREET, AKRON, OHIO 44318, U.S.A.

Inventor: DOUGLAS BRUCE RAHRIG.

Application for Patent No. 274/Del/1988, filed on 5th April 1988.

Divisional to Application No. 535/Del/1985, filed on 8th July, 1985. Ante-date to 8-7-1985.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110 005.

2 Claims

A process for pelletizing vinyl chloride homopolymer such as herein described and glass fibers such as herein described, the improvement comprising,

169125

(a) heating said homopolymer in which the vinyl chloride portion of each repeating unit contains 5% to 72% by weight chlorine with a stabilizer to a temperature above 160°C but below the temperature at which said resin is degraded,

(b) kneading in a manner known per se said hot homopolymer to form from 5% to 50% by weight of glass fibers based on the weight of glass and homopolymer, each fiber having a diameter less than about 20 microns, wherein said glass fibers are coated with a size consisting essentially of

(i) an amino silane coupling agent having a reactive amine moiety which upon reaction with said resin results in a compound having a peak in a proton magnetic resonance spectra at 5.65 ppm, and

(ii) a film former consisting essentially of a polymer having a ring-opened lower alkylene oxide containing from 2 to 4 carbon atoms as an essential component in a repeating unit optionally containing another copolymerizable component, and,

(c) comminuting the mass to form pellets in the size range from 3 mm to 8 mm in equivalent diameter.

Compl. Specn. 23 Pages.

Drg. 4 Sheets.

Ind. Cl. : 32E
Int. Cl.⁴ : C08G 8/28.

169127

A PROCESS FOR THE PRODUCTION OF A HEAT-RESISTANT POLYMERIC RESIN.

Applicant: GURIT-ESSEX AG., a Swiss company, of 8807 Freienbach, Switzerland.

Inventor: HERBERT SCHREIBER.

Application for Patent No. 441/Del/1988, filed on 19 May 88.

Divisional to Application No. 750/Del/85 filed on 12.9.85. Ante-date to 12th September, 1985.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110 005.

13 Claims

A process for the production of a heat-resistant polymeric resin wherein a curable composition, consisting of a mixture of: [A] at least one compound of the formula represented by Figure 5

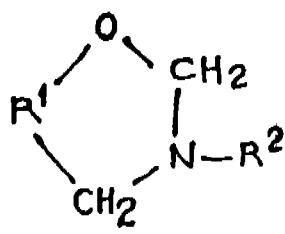


Fig. 5

R^1 is a group formally derived by removing twice a hydroxy group and a hydrogen atom in ortho position from a phenol which is a member of the group consisting of 4, 4'-dihydroxy biphenyl-methane, 3, 3'-dihydroxy diphenylethane, 2, 2 bis-hydroxyphenyle J-propane, 4, 4'-dihydroxy-stilbene, hydroquinone, pyrocatechol and resorcinol; and

R^2 is a phenyl group.

said compound [A] containing a ring of more than one 1,4- α -3,4-tetraline group per molecule and the prepolymers thereof, and [B] at least one cycloaliphatic epoxy containing at least two epoxide groups, at least one of which is a hydroxyalkoxy having 1 to 4 carbons, the mole ratio of epoxide groups to oxaziaza tetraline groups being in the range of 0.2 to 2, is cured at a temperature in the range from 50° to 300°C.

Compl. Specn 24 Pages.

Dr. S. Sh.

Ind. Cl. : 32F1 & 32 F2b
Int. Cl. : C 07 D 209/04.

169128

A PROCESS FOR PREPARING 2-OXINDOLE COMPOUND.

Applicant: PFIZER INC., A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF DELAWARE, UNITED STATES OF AMERICA, OF 235 EAST 42ND STREET, NEW YORK, STATE OF NEW YORK, UNITED STATES OF AMERICA.

Inventor: SAUL BERNARD KADIN.

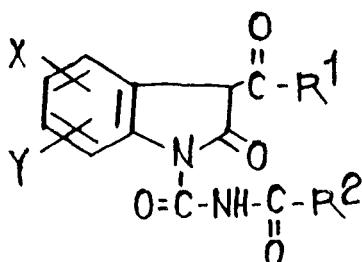
Applications for Patent No. 631/Del/1987, filed on 24th July, 1987.

Divisional to Application No. 42/Del/85 filed on 22nd January 1985. Ante dated to 22nd January, 1985

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110 005.

7 Claims

A process for preparing 2-oxindole compound of the Formula I



Formula I

Wherein:

X is hydrogen, fluore, chloro, bromo, alkyl having 1 to 4 carbons, cycloalkyl having 3 to 7 carbons, alkoxy having 1 to 4 carbons, alkylthio having 1 to 4 carbons, trifluoromethyl, alkylsulfinyl having 1 to 4 carbons, alkylsulfonyl having 1 to 4 carbons, nitro phenyl,

benzoyl having 2 to 4 carbons benzoyl, thenoyl, alkanamido having 1 to 4 carbons, benxamido or N-dialkylsufamoyl having 1 to 3 carbons in each of said alkyls; and Y is hydrogen, fluoro, chloro, bromo, alkyl having 1 to 4 carbons, cycloalkyl having 3 to 7 carbons, alkoxy having 1 to 4 carbons, alkylthio having 1 to 4 carbons or trifluoromethyl;

or X and Y when taken together are a 4, 5-, 5, 6- or 6, 7-ethylenedioxy group or 4, 5-, 5, 6- or 6, 7-ethylenedioxy group;

or X and Y when taken together and when attached to adjacent carbon atoms, from a divalent radical Z, where Z is selected from the radicals of the Formulae Z¹, Z², Z³, Z⁴ or Z⁵, wherein W is oxygen or sulfur;

R^1 is alkyl having 1 to 6 carbons, cycloalkyl having 3 to 7 carbons, phenyl, substituted phenyl, phenylalkyl having 1 to 3 carbons in said alkyl, (substituted phenyl) alkyl having 1 to 3 carbons in said alkyl, phenoxyalkyl having 1 to 3 carbons in said alkyl, (substituted phenoxy) alkyl having 1 to 3 carbons in said alkyl, naphthyl or $(CH_2)_n-Q-R^2$;

wherein the substituent in said substituted phenyl and (substituted phenyl) alkyl and (substituted phenoxy) alkyl is selected from the group consisting of fluoro, chloro, alkyl having 1 to 3 carbons, alkoxy having 1 to 3 carbons and trifluoromethyl; n is zero, 1 or 2; Q is a divalent radical derived from a compound selected from the group consisting of furan, thiophene, pyrrole, thiazole, isothiazole, oxazole, isoxazole, 1, 2, 3-thiadiazole, 1, 2, 5-thiadiazole, tetrahydrofuran, thriahydrothiophene, pyridine, pyrimidine, pyrazine, benzo (b) furan and benzo (b) thiophene; and R^2 is hydrogen or alkyl having 1 to 3 carbons;

and R^2 is selected from the group consisting of alkyl having 1 to 6 carbons, cycloalkyl having 3 to 7 carbons, phenoxy methyl, furyl, thiienyl, pyridyl and a radical of Formula V

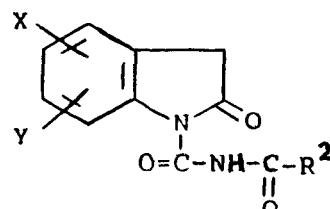


Formula V

wherein R^3 and R^4 are each selected from the group consisting of hydrogen, fluoro, chloro, alkyl having 1 to 4 carbons, alkoxy having 1 to 4 carbons or trifluoromethyl;

characterized by

reacting a compound of the Formula II



Formula II

with an activated derivative of acarboxylic acid of the Formula $R^1-C(=O)-OH$, in an inert solvent in the presence of a basic agent of the kind such as herein described, at a temperature in the range of from 10 to 25°C.

Compl. Specn. 53 Pages.

Drgs. 4 Sheets.

Ind. Cl. : 103.
Int. Cl.⁴ : C23F 15/00

169129

A PROCESS FOR THE PREPARATION OF CATALYSED OXYGEN SCAVENGERS SUITABLE FOR REMOVAL OF DIS-SOLVED OXYGEN IN WATER.

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110 001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventors : INDER SINGH & VISHWANATH ANANT ALTEKAR

Application for Patent No. 942/Del/1988, filed on 2nd November, 1988.

Divisional to Application No. 205/Del/86, filed on 6th March 1986. Ante-date to 6th March 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110 005.

5 Claims

A process for the preparation of catalysed oxygen scavengers suitable for removal of dissolved oxygen in water which comprises adding a reducing agent selected from hydrazine hydrate, hydrazine, $MHSO_4$ or M_2SO_4 where M is sodium potassium, ammonium, zinc, calcium or copper, inorganic or organic nitrates to an amino phenol having the formula $R_1R_2C_6H_4O$ wherever R_1 , R_2 is the group of NHR_3 in which R_3 is selected from hydrogen and alkyl, aryl, and alkaryl groups and the other of R_1 & R_2 is selected from hydrogen and a group NR_4R_5 in which R_4 & R_5 may be same or different and are selected from hydrogen and alkyl, aryl and aralkyl group and acid addition salts thereof and adding to the resultant addition compound a catalyst capable of enhancing the reaction between oxygen and the addition compound, selected from activated carbon or a salt of silver, vanadium, copper, cobalt, at 30—60°C under constant stirring.

Compl. Specn. 7 Pages.

Ind. Cl. : 32 E.
Int. Cl.⁴ : C08G 8/28

169130

A PROCESS FOR THE PRODUCTION OF A HEAT-RESISTANT POLYMERIC RESIN

Applicant : GURIT-ESSEX AG., A SWISS COMPANY, OF 8807 FREIENBACH, SWITZERLAND.

Inventor : HERBERT SCHREIBER.

Application for Patent No. 750/Del/1985, filed on 12th September, 1985.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110 005.

13 Claims

1 A process for the production of a heat-resistant polymeric resin which comprises curing a curable composition consisting of a mixture of :

[A] at least one compound of the formula represented by Figure 7

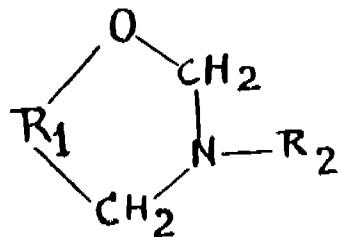


Fig. 7

of the drawings, wherein

R^1 is a group formally derived by removing once or twice a hydroxy group and a hydrogen atom in ortho position from a phenol which is a member of the group consisting of phenol, m-and p-cresol, m-and p-ethyl-phenol, m-and p-isopropyl-phenol, m-and p-methoxy-phenol, m-and p-ethoxy-phenol, m-and p-isopropoxy-phenol, m-and p-chlorophenol, betanaphthol, 4, 4'-dihydroxy-diphenyl-methane, 3, 3'-dihydroxy-diphenyl-methane, 2,2-bis-[4-hydroxy-phenyl]-propane, 4, 4'-dihydroxy-stilbene, hydroquinone, pyrocatechol and resorcinol; and

[B] at least one cycloaliphatic epoxide

characterised in that compound B such as herein defined is an epoxide containing at least one aliphatic ring and at least two epoxide groups at least one of said groups being part of said ring, the molar ratio of compound (B) to compound (A) being in the range of 0.2 to 2 and said cure being effected at a temperature in the range of from 50°C to 300°C.

Compl. Specn. 26 Pages.

Drg. 3 Sheets.

Ind. Cl. : 42 A.
Int. Cl.⁴ : A24C 5/39.

169131

CIGARETTE MANUFACTURING MACHINE WITH AN AUXILIARY TOBACCO FEED UNIT.

Applicant : G.D. SOCIETA PER AZIONI, AN ITALIAN COMPANY, OF VIA POMPONIA, 10, 40100 BOLOGNA, ITALY.

Inventors : RICCARDO MATTEI, BRUNO BELVEDERI AND FRANCO GHINI

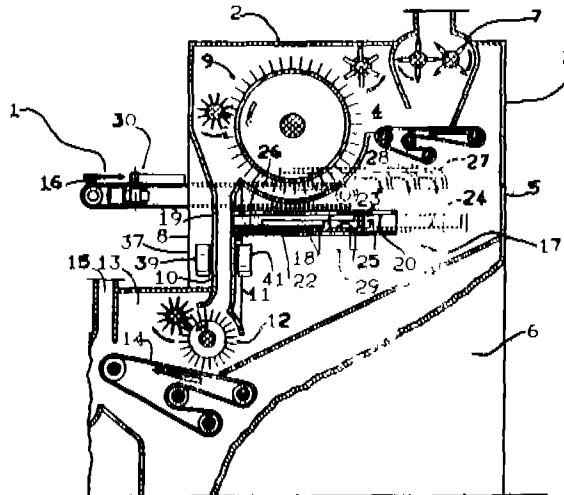
Application for Patent No. 16/Del/1987, filed on 6th January, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110 005.

6 Claims

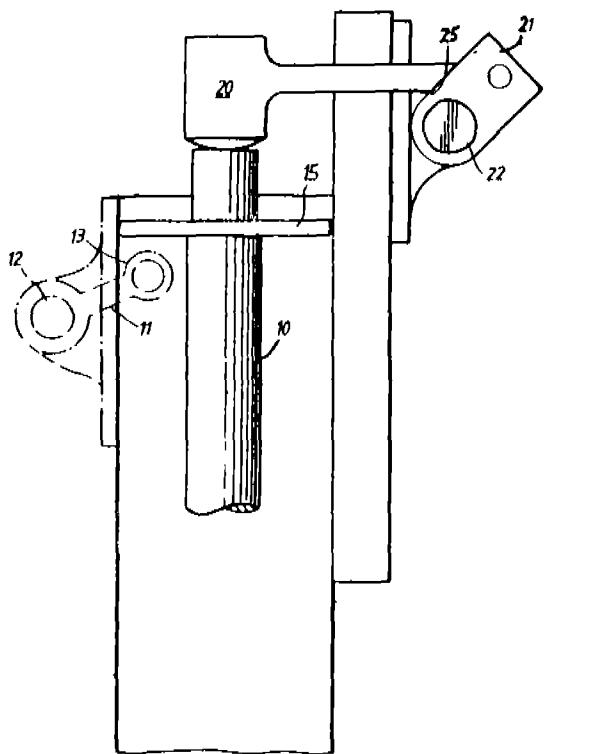
A cigarette manufacturing machine comprising a main tobacco feed device (7), a downflow duct (8) for supplying shredded tobacco, said duct (8) having its upper end in communication with said main tobacco feed device (7), tobacco level detecting means (37) connected to said duct (8) to detect the level of the shredded tobacco within said duct (8), and an auxiliary tobacco feed unit (17) for feeding tobacco to

said duct (8), said auxiliary unit (17) including an outlet end portion consisting of tobacco feeding means (16, 18) extending transversely of said duct (8) and communicating therewith at a point intermediate said duct (8), characterised in that tobacco deflecting means (31, 32, 42, 44) is provided on said tobacco feeding means (16, 18), said deflecting means (31, 32, 42, 44) being connected to and controlled by said level detecting means (37) for moving the tobacco on said feeding means (16, 18) in a direction crosswise in relation to said feeding means (16, 18).



Compl. Specn. 13 Pages.

Drg. 3 Sheets.



Compl. Specn. 8 Pages.

Drg. 2 Sheets.

Ind. Cl. : 127 H.

169132

Int. Cl.⁴ : F16C 1/00 & 1/10.

A RAPPING DEVICE FOR VARIABLE INTENSITY RAPPING.

Applicant: DRESSER U.K. LIMITED, A BRITISH COMPANY, OF 197 KNIGHTSBRIDGE, LONDON SW7 1RJ, ENGLAND.

Inventor: ALAN PETER BAYLIS.

Application for Patent No. 45/Del/1987, filed on 21st January, 1987

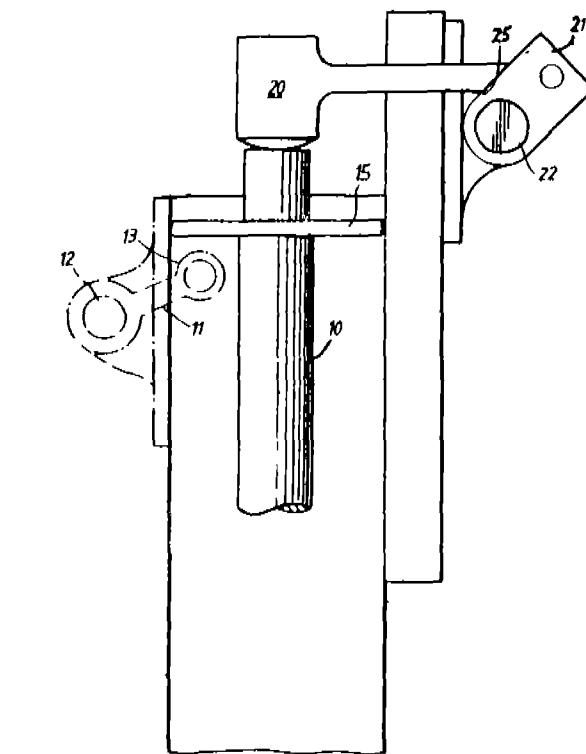
Convention date 30th Jan 1986/8602308/G.B.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110 005.

5 Claims

A rapping device for variable intensity rapping comprising a drop rod (10) having a collar (15) at the upper end thereof, means for raising and releasing said drop rod to apply a rapping impact and characterised by adjusting means located at the upper end of said drop rod for varying the force of impact independently, said adjusting means comprising a weight and a means for adding weight to the weight of said drop rod (10) as it falls, and a rotatable drive shaft

connected to said means for adding weight to move said means for adding weight out of engagement with said drop rod (10) on rotation.



Compl. Specn. 8 Pages.

169133

Int. Cl.⁴ : A 01 B 51/02 & B 60 P 3/00.

VEHICLE SUITABLE FOR USE IN ROUGH TERRAIN.

Applicant: JEFFERSON APPROTRAAC COMPANY PTY. LIMITED OF 31-33 PARRAMATTA ROAD, LIDCOMBE, NEW SOUTH WALES, 2141 COMMONWEALTH OF AUSTRALIA, A COMPANY INCORPORATED UNDER THE LAWS OF THE STATE OF NEW SOUTH WALES, COMMONWEALTH OF AUSTRALIA.

Inventor: DENNIS MICHAEL FRINK.

Application for Patent No. 681/Del/87, filed on 3rd August, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110 005.

14 Claims

A vehicle suitable for use in rough terrain comprising:

- (i) a flexible frame (14) having a pair of side members (23, 24) and a pair of end members (21, 22);

- (ii) connector means (25, 26, 27, 28) at each corner of said frame (14), each said connector means (25, 26, 27, 28) having a pivotal connection (27) between the connector means and the end of the side member (23) and the end of the end member (21) at the respective corners to enable each side member (23, 24) and each end member (21, 22) to pivot relative to the connector means (25, 26, 27) to which they are connected, said connector means accommodating increased distances which occur between the ends of the side members (23, 24) and the ends of the end members (21, 22) during operation of the vehicle;
- (iii) a front wheel (17) at one end of each side member (23, 24) and a rear wheel (18) at the other end of each side member (23, 24);
- (iv) a platform (11) within the said flexible frame (14) and connected thereto by front and rear pivot means (34) which extend from the platform (11) to the end members (21, 22) and by side pivot means (41, 42) which extend from the platform (11) to each side members (23, 24) whereby said end members (21, 22) and said side members (23, 24) may pivot relative to the respective pivot means (41, 42);
- (v) said wheels (17) being connected to the side members (23, 24) at locations between the side pivot means (41, 42) and the pivotal connection means so that the wheels (17, 18) do not tilt laterally when the end members (21, 22) pivot on said front and rear pivot means (34).

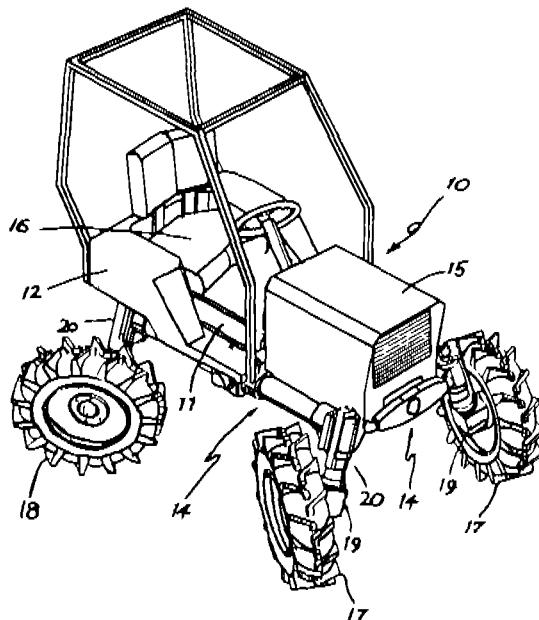


Fig. 1

Compl. Specn. 15 Pages.

Drg. 6 Sheets.

Ind. Cl.: 160 A.
Int. Cl.⁴: B 60 R 27/00.

169134

TWO-WHEELER EQUIPPED WITH A DEVICE FOR LOCKING AN OBJECT ONTO THE STRUCTURE THEREOF.

Applicant: PIAGGIO & C S P.A., A COMPANY ORGANISED UNDER LAW OF THE ITALIAN REPUBLIC OF VIA A. CECCHI 6-GENEVA, ITALY

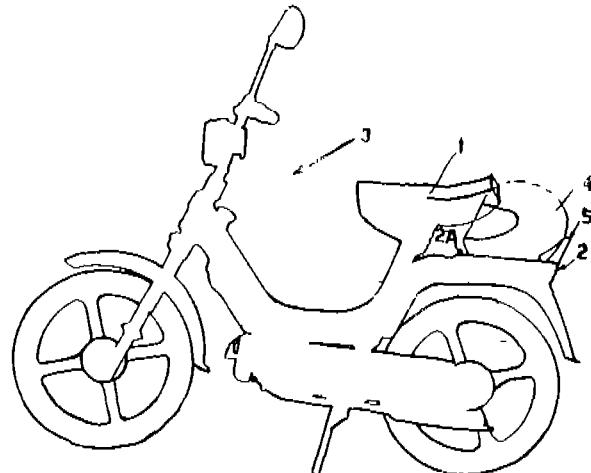
Inventor: LUIGI AGNOLUCCI.

Application for the Patent No. 715/Del/87, filed on 18th August 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

12 Claims

Two-wheeler equipped with a device for locking an object (4) onto the structure thereof characterised in that said locking device comprises a restraining member (5) slidably mounted on a flat surface portion (2a) of the vehicle (3), located behind a saddle (1) of said vehicle (3), elastic members (9) being connected to the vehicle (3) body and to said restraining member (5) for resiliently biasing said restraining member (5) towards the rear portion (6) of said saddle (1), said restraining member (5), said flat surface portion (2a) and rear portion (6) of said saddle (1) together providing a housing for said object (4).

Fig. 1
Compl. Specn. 9 Pages

Drg. 3 Sheets.

Ind. Cl.: 98 L.
Int. Cl.⁴: F 24 J 2/00 & 2/02.

169135

A SOLAR WATER HEATER

Applicant: THE TATA ENERGY RESEARCH INSTITUTE, A SOCIETY REGISTERED UNDER THE INDIAN SOCIETIES REGISTRATION ACT, 1890, WITH THE REGISTERED OFFICE AT JEEVAN TATA BUILDING, PARLIAMENT STREET, NEW DELHI-110 001.

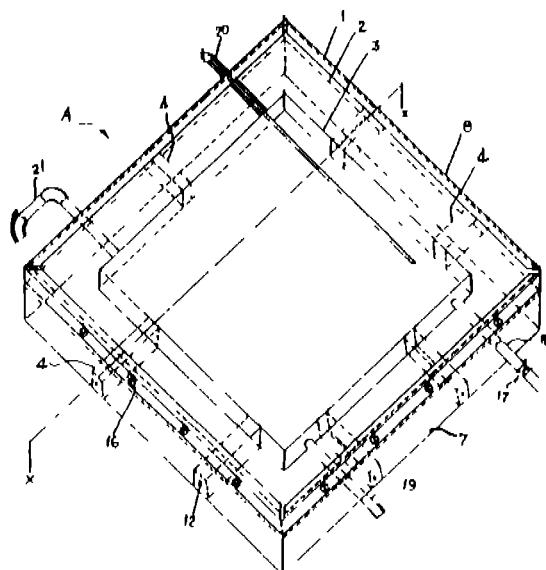
Inventor: ASHOK GADGIL.

Application for Patent No. 720/Del/87, filed on 19th August, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

8 Claims

A solar water heater comprising a water storage tank 3 having a water inlet pipe 19 and outlet pipe 18 provided within an outer shell 7 said water storage tank 3 being insulated by an inner and outer layer 5 & 6 of insulation in contact with said tank 3, and incorporates an outer and inner layer 1 & 2 of glazing material wherein said outer layer 1 of glazing means consists of a sheet made of ultra violet stabilized material, such as acrylic, and said inner layer 2 consists of a stacked transparent glass tubes, such as optical glass, to allow solar radiation to pass therethrough to heat the water stored within said water storage tank 3, and simultaneously minimize radiation losses



Compl Specn 16 Pages

Drg 2 Sheets

Ind Cl 55 E 4
Int Cl⁴ A 61 K 33/06 & 33/12

169136

PROCESS FOR THE PREPARATION OF NEW ANTI-DIARRHOEA COMPOSITIONS

Applicant SOCIETE DE CONSEILS DE RECHERCHES ET D'APPLICATIONS SCIENTIFIQUES (S C R.A.S.), A FRENCH COMPANY OF 51/53 RUE DU DOCTEUR BLANCHE 75016 PARIS, FRANCE

Inventors HRIDAYA BHARGAVA & JACQUES JUTTEAU

Application for the Patent No 624/Del/88, filed on 21st July, 1988

Convention date 15th May 1985/85 12345/U.K. Divisional to Application No. 423/Del/86 filed on 12th May, 1986 Ante dated to 12th May 1986

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110 005

5 Claims

A process for the preparation of an anti-diarrhoea composition containing diarrhoea symptom-reducing amounts of a thermally

activated, finely powdered, hydrous magnesium aluminium silicate clay belonging to the group of the attapulgites or to the group of the smectites as absorptive material capable of absorbing pathogenic intestinal bacteria at least one sodium salt of the kind herein described a potassium salt of the kind herein described, a bicarbonate salt of the kind herein described and a sugar of the kind herein described which comprises mixing suspending agents of the kind described herein with said absorptive material, thereafter adding successively each of said salts to the mixture under continuous mixing and finally adding said sugar to the mixture also under continuous mixing

Compl Specn 18 Pages.

Drg. NIL.

Ind Cl 103
Int Cl⁴ C 23 F 15/00

169137

A PROCESS FOR THE PREPARATION OF CATALYSED OXYGEN SCAVENGERS SUITABLE FOR REMOVAL OF DISSOLVED OXYGEN IN WATER

Applicant COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110 001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventors INDER SINGH & VISHWANATH ANANT ALTEKAR

Application for Patent No 943/Del/88, filed on 2nd November, 1988

Divisional to Application No 205/Del/86 filed on 6th March, 1986

Ante-dated to 6th March, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110 005.

4 Claims

A process for preparation of catalysed oxygen scavengers suitable for removal of oxygen in water which comprises adding a reducing agent selected from hydrazine hydrate, hydrazine, $MHSO_4$ of M_2SO_4 where M is sodium, potassium, ammonium, zinc, calcium or copper, inorganic or organic nitrites to a quinone compound selected from the group consisting of quinones, naphthoquinones anthraquinones and their hydroxy and sulphonic acid and acid addition salts thereof and adding to the resultant addition compound a catalyst, capable of enhancing reaction between oxygen and the addition compound, selected from activated carbon a salt of silver, vanadium, copper, cobalt at 30–60°C under constant stirring.

Compl Specn 6 Pages

Drg. Nil.

Ind Cl 179 G
Int Cl⁴ B 65 D 41/50

169138

A SEALING CLOSURE OR CAP FOR A BOTTLE AND A BOTTLE WITH SAID CLOSURE OR CAP

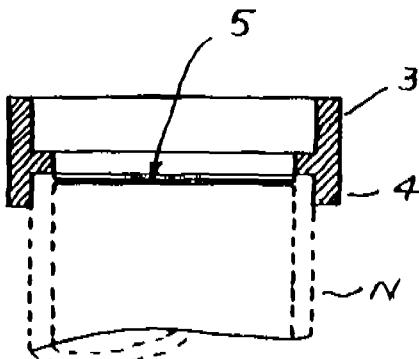
Applicant & Inventors : VIVEK MULL, AN INDIAN NATIONAL OF CHANDRA AGRO PVT. LTD., MULL BUILDING, ASHOK MARG, LUCKNOW, U.P. AND SHREE KRISHNA-KESHAV LABORATORIES LTD., AN INDIAN COMPANY OF AMRAIWADI ROAD, AHMEDABAD-380008, GUJARAT, INDIA.

Application for Patent No. 943/Del/87, filed on 28th October, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110 005.

4 Claims

A sealing closure or cap for a bottle comprising a hollow cylindrical shape made on a thermo-plastic material having an integral diaphragm^a intermediate its length and a lower longitudinal skirt^b provided on the periphery of the diaphragm^a so as to be secured over the neck^c of the bottle, a central depression^c being provided on the upper side of said diaphragm^a and surrounded by another upper longitudinal skirt^b having a coaxial annular ledge^d, a disc shaped cover^e fitted over said ledge^d when the bottle is not in use.



Compl. Specn. 8 Pages.

Drg. 2 Sheets.

Ind. Cl. : 48 C. 169139
Int. Cl.^a : B 32 B 7/06, 15/02, H 01 B 3/42, 13/24, 17/62.

A LAMINATE FOR INSULATION.

Applicant : BP CHEMICALS LIMITED, A BRITISH COMPANY, OF BELGRAVE HOUSE, 76 BUCKINGHAM PALACE ROAD, LONDON SW1W 0SU, ENGLAND.

Inventor : JACQUES SCHOMBOURG.

Application for Patent No. 726/Del/88, filed on 23rd August, 1988.

Convention date 22nd December, 1985/8432608/U.K.

Divisional to Application No. 1060/Del/85 filed on 16th December, 1985.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110 005.

7 Claims

A laminate for insulation comprising at least three extruded layers of polymer-based material (3, 4, 5,) characterised in that an intermediate layer (4) between a first layer (3) and a second layer (5) is strippably bonded to the first layer (3) and fully bonded to the second layer (5) such that the second layer together with substantially all of the intermediate layer (4) is readily strippable from the first layer (3), the first layer being an insulating material of the kind such as herein defined, the intermediate layer being of at least partially insulating or a semi-conductive material of the kind such as herein defined and the second layer being of a semiconductive shielding material of the kind such as herein defined.

Compl. Specn. 20 Pages

Drg. 1 Sheet

Ind. Cl. : 9 D & 33 H.

169140

Int. Cl.^a : C 21 C 1/10.

A PROCESS FOR THE PRODUCTION OF COMPAKTED GRAPHITE IRON.

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFTI MARG, NEW DELHI-110 001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventors : RADHA RAMAN DASH AND ONKAR NATH MOHANTY.

Application for Patent No. 460/Del/86, filed on 27th May, 1986.

Complete Specification left on 11th August, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110 005.

7 Claims

A process for the production of compacted graphite iron which comprises :

- (i) melting sponge iron such as herein described in a direct arc furnace
- (ii) adding graphitic, carbon, lime and ferro silicon to the melted sponge iron.
- (iii) inoculating the mixture obtained in step (ii) with ferro silicon-magnesium master alloy together with ferrotitanium as a denodularising agent.

Provn. Specn. 5 Pages.

Compl. Specn. 9 Pages.

Drg. NIL

Ind. Cl. : (48 A₂+187H) CVIII (3) LXI (2)
Int. Cl.⁴ : H01 B11/00.

169141

A METHOD AND APPARATUS FOR MANUFACTURING OPTICAL FIBRE.

Applicant : STC PLC., A BRITISH COMPANY, OF 10, MALTRavers STREET, LONDON WC2R 3HA, ENGLAND.

Inventor : IAN DOUGLAS HARDING.

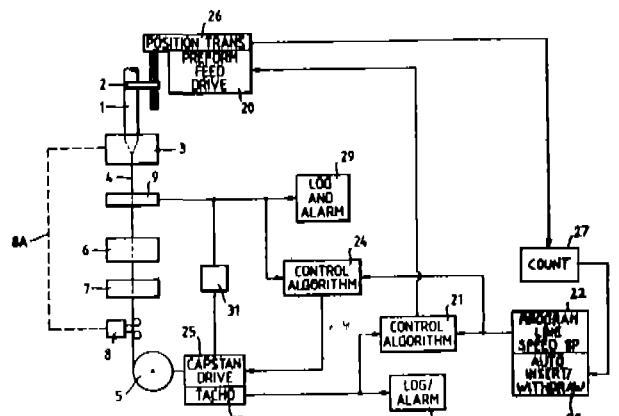
Application for Patent No. 728/Del/86, filed on 12th August, 1986.

Convention date 21st August, 1985/8520945/U.K.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110 005.

7 Claims

A method of manufacturing optical fibre comprising feeding an optical fibre preform into a furnace at a first rate while operating the furnace at a predetermined temperature, pulling a fibre from the preform around a capstan at a second rate, said first and second rates being calculated to produce a fibre of a nominal diameter, monitoring the diameter of the drawn optical fibre and providing a signal representative of a deviation of the measured diameter from the nominal diameter, and modifying the speed of the capstan in response to the deviation signal from the diameter monitor, whereby to tend to maintain the optical fibre as close as possible to the nominal diameter, and controlling the glass melting rate by varying the preform feed drive rate in melting rate by varying the preform feed drive rate in dependence upon variation of the fibre pulling rate.



Compl. Specn. 8 Pages.

Drg. 1 Sheet.

Ind. Cl. : 206E, 7 LXLL LI (1)
Int. Cl. : G08B 1/08.

169142

OPTICAL TIME-DOMAIN REFLECTOMETRY APPARATUS.

Applicant : YORK LIMITED, A BRITISH COMPANY, OF YORK HOUSE, SCHOOL LANE, CHANDLER'S FORD, HAMPSHIRE SO5 3DG, UNITED KINGDOM.

Inventors : ARTHUR HAROLD HARTOG, MARTIN PETER GOLD & ADRIAN PHILIP LEACH.

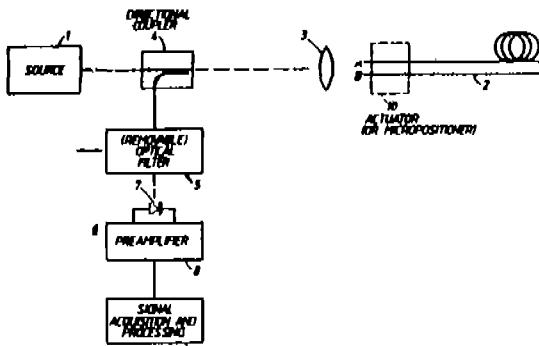
Application for Patent No. 743/Del/86, filed on 18th August, 1986.

Convention date 8th August, 1985/8520827/U.K.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110 005.

Claims

Optical time-domain reflectometry apparatus comprising at least one optical fibre (2) suitable for deployment through a region of interest, source means 1, 1A or 1B for launching optical radiation into the fibre (2), at least one end thereof, and remote sensing means (6, 9) having a sensor (7) positioned adjacent to one end of the said one fibre (2) receiving optical radiation back-scattered thereby and employing that back-scattered optical radiation to sense respective values of a physical parameter at different locations along the fibre (2) characterised by optical filtering and directing means (5) positioned between the said end of the fibre (2) and the said sensor (7) and having a passband which ensures that the back-scattered optical radiation directed onto the said sensor (7) and used to produce output signals indicative of the values being sensed is restricted to a preselected single spectral line, resulting from inelastic scattering in the fibre (2) or to two preselected such lines that are closely adjacent to one another and are directed onto the said sensor (7) so as to be additive in effect thereon.



Compl. Specn. 21 Pages.

Drg. 6 Sheets.

Ind. Cl. : 45E.
Int. Cl.⁴ : E03D 9/02.

169143

STERILIZER FOR TOILET SPRAY ATTACHMENT.

Applicant & Inventor : DAI-MING KUO, A CITIZEN OF TAIWAN, OF 226 MIN-CHIEN RD., PANCHIAO CITY, TAIPEI HSIEN, TAIWAN.

Application for Patent No. 844/Del/86, filed on 24th September, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110 005.

10 Claims

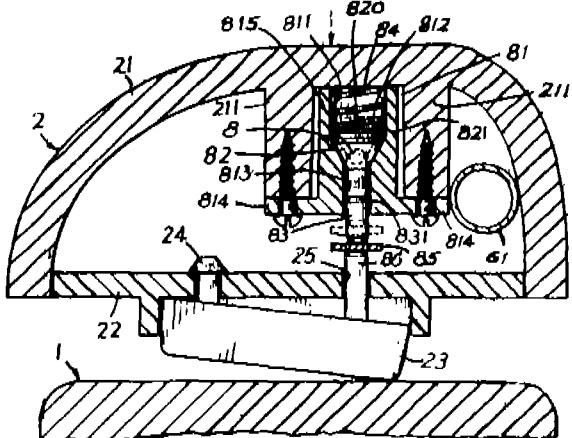
1. A sterilizer for toilet spray attachment comprising :

a liquid reservoir (71) filled with sterilizing agent or cleaning chemical therein and having a top cover (72) drilled with a venting hole (73) thereon;

a delivery tube (74) having a valve (740) and connected between said liquid reservoir (71) and a spray nozzle (5 or 6) which is adapted for spraying either an user's anus or genitals;

an automatic closer (8) connected between an upstream tube portion (741) and a downstream tube portion (742) of said delivery tube (74), which includes :

a cylinder body (81) mounted in a toilet seat and formed with an upper cylindrical hole (811), an inverse truncated-cone hole (812), and a lower cylindrical hole (813); a resilient plug (82) having a truncated-cone shape engaged with said truncated-cone hole (812) and retained by a restoring spring (84) inserted in said upper hole (811) and sealing an inlet hole (815) and a outlet hole (816), respectively disposed on both sides of said truncated-cone hole (812) and communicating with said tube (74); a stem portion (83) having similar diameter than said plug (82) and extending downwards from said plug through said lower hole (813), a spring plate (85) secured to said toilet seat (2) and contacting said stem portion (83), and a cushion (23) pivoted under seat (2) and having its outer and formed with an actuating rod (86) extending upwards to be normally biased by said spring plate (85) to ride said cushion (23) on a toilet bowl (1) to raise said toilet seat (2) to allow said plug (82) to seal said liquid holes (815, 816) of said liquid delivery tube, and whereby upon the depression of said toilet seat (2) by an user's gravity, the actuating rod (86) of said cushion (23) will be biased to raise said plug (82) to open said liquid holes for liquid drainage.



Compl. Specn. 10 Pages.

Drg. 3 Sheets.

Ind. Cl. : 13 A.
Int. Cl⁴ : A45C 3/00 & 3/02.

169144

LUGGAGE CASE.

Applicant : SAMSONITE CORPORATION, A CORPORATION ORGANISED AND EXISTING UNDER THE LAWS OF THE STATE OF COLORADO, U.S.A., OF 11200 EAST 45TH AVENUE, DENEVER, COLORADO 80239, U.S.A.

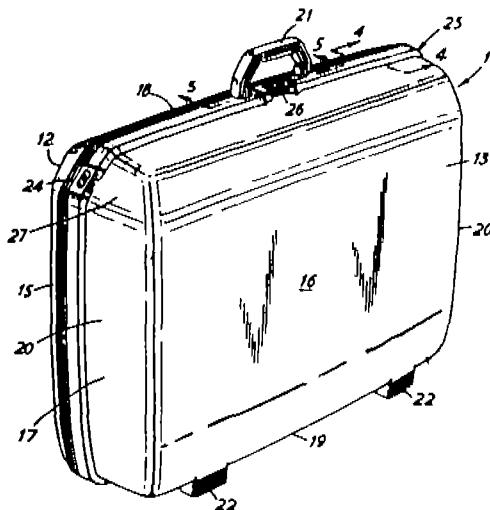
Inventors : RENATO CASTELLI, WILLY VAN HOYE, RICHARD MILES & STEPHEN TIMOTHY GREEN.

Application for Patent No. 909/Del/1986, filed on 14th October, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110 005.

7 Claims

A luggage case (11) comprising two shells (12, 13), one constituting a base shell (13) and the other a lid shell (12), said shells being hinged (23) together at the back wall (19) of said case, each of said shells having a peripheral side (15, 17) wall which engages the peripheral side wall of the other of said shells at the edges of said side walls when the case is closed, and latch (24-26) means to fasten said edges together when the case is closed, the peripheral side (17) wall of said base shell including a front wall (18), a back (19) wall and end walls (20), said front wall of said base shell comprising a handle (21) for carrying said case, characterised in that said latch means include at least two latches (24, 25) located on the front portions (27) of the end walls at the intersection between the front wall (18) and the end walls (20), the peripheral side wall (!7) of said base shell (13) being deeper along the back and end walls than along the front wall, such that, at the front, the side wall of the base shell extends to just over half the overall height of the case and at the end walls and back wall the side wall is about three quarters the overall height of the case; the depth of the peripheral wall thus increasing from the front wall to the end walls in said front portion.



Compl. Specn. 14 Pages.

Drg. 8 Sheets.

Ind. Cl. : 161 D.
Int. Cl⁴ : E01C 5/00.

169145

A MOULD FOR THE PRODUCTION OF PRECAST CONCRETE BLOCKS FOR CONSTRUCTION OF ROADS AND OTHER RIDING SURFACES.

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110 001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

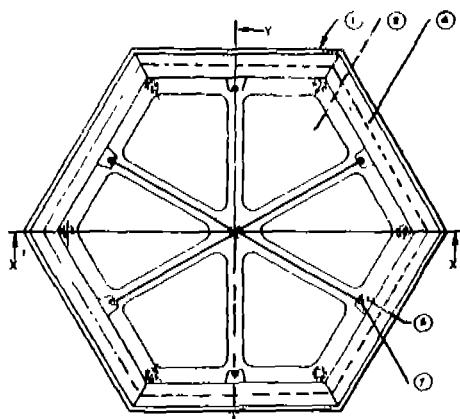
Inventors : MITTER PAUL DHIR, MELINAMANE CHOWDAPPA VENKATESHA AND THARAMAL MURALEE-DHARAN.

Application for Patent No. 1084/Del/1986, filed on 10th December, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110 005.

2 Claims

A mould for the production of blocks for construction of roads and other riding surfaces such as herein described which comprises a base plate (3) with three (3, 11, 10) at the bottom characterised in that the said base plate having spacers (2), (9), (10) fixed on the top of it to provide hollow portions underneath the blocks and having detachable channels (4), (12), (13), (14) fixed on the sides, each channel being provided with a dowel holder (6) in such a way that the top of the dowel holder (6) is at the top of the channel and the centre line along the width of the channel and the centre line at the top of the dowel holder coincide, each dowel holder (6) having a hole and slotted head for accommodating the dowel and means (7) for fixing the dowel to the dowel holder (6), the said channels being fitted to one another such that the internal configuration of the mould is of a desired shape.



Compl. Specn. 13 Pages.

Drg. 14 Sheets.

Ind. Cl. : 32F2 (C).
Int. Cl.⁴ : C08G 18/02.

169146

PROCESS FOR PREPARING POLYUREA AND POLYUREA/POLYURETHANE POLYMERS.

Applicant : IMPERIAL CHEMICAL INDUSTRIES PLC., A BRITISH COMPANY, OF IMPERIAL CHEMICAL HOUSE, MILLBANK, LONDON SW1P 3JF, ENGLAND.

Inventors : JAMES MARTIN BENTLEY, JAMES PETER BROWN, GUY FRIJNS & DAVID JOHN SPARROW.

Application for Patent No. 228/Del/87, filed on 18th March, 1987.

Convention date 26th March, 1986/8607597/U.K. & 17th June, 1986/8614703/U.K.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110 005.

6 Claims

A process for producing a polyurea or polyurea/polyurethane polymer which is either cellular, microcellular or non-cellular, by the reaction of organic polyisocyanate, diamine chain extender and

isocyanate reactive polymer, optionally in the presence of suitable catalysts, blowing agents, further chain extenders and additives such as herein described characterised in that at least part of the isocyanate reactive polymer is a primary ended polymeric polyamine having a molecular weight of from 1000 to 16000 and containing from 2 to 4 primary amino groups per molecule, said primary ended polymeric polyamine being the condensation product of a polycarboxylic acid and a stoichiometric excess of a polyamine having terminal aminopropoxy groups and a molecular weight of from 500 to 5000.

Compl. Specn. 13 Pages.

Drg. NIL.

Ind. Cl. : 140 A2.
Int. Cl.⁴ : C01M 101/00

169147

A SYNTHETIC LUBRICANT COMPOSITION.

Applicant : THE LUBRIZOL CORPORATION, OF 29400 LAKEWOOD BOULEVARD WICKLIFFE, OHIO 44092 U.S.A., A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF OHIO, U.S.A.

Inventors : CRAIG DANIEL TIPTON & JAMES JAY SCHWIND.

Application for Patent No. 237/Del/1987, filed on 19th March, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110 005.

19 Claims

A synthetic lubricant composition suitable for a manual transmission fluid comprising :

- (a) an alkaline earth metal salt selected from the group consisting of sulfonates, phenates, oxylates, carboxylates and mixtures thereof in an amount of 0.57% to 8% by weight;
- (b) a friction modifier selected from the group consisting of fatty phosphites borated fatty epoxides, borated glycerol mono-carboxylates, borated alkoxylated fatty amines and mixtures thereof in an amount of 0.1% to 5% by weight;
- (c) a sulfurized olefin in an amount of 0.1% to 5% by weight; and
- (d) a synthetic lubricant such as herein defined, in an amount of 4% to 98% by weight.

Compl. Specn. 34 Pages.

Ind. Cl. : 95E.
Int. Cl.⁴ : C22C 14/00.

169148

METHOD OF MANUFACTURING TITANIUM-BASE ALLOYS.

Applicant : IMI TITANIUM LIMITED, A BRITISH COMPANY, OF P.O. BOX 704, WITTON BIRMINGHAM B6 7UR, ENGLAND.

Inventor : ANTHONY CLIFFORD BARBER.

Application for Patent No. 343/Del/1987, filed on 20th April, 1987.

Convention date 18th April, 1986/8609580/U.K.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972). Patent Office Branch, New Delhi-110 005.

10 Claims

A method of manufacturing a titanium-base alloy which comprises combining by any conventional alloying operation 5.0—7.0% aluminium, 2.0—7.0% zirconium, 0.1—2.5% molybdenum and 0.01—10.0% germanium and at least one element of group IV A of periodic table selected from tin 2.0—6.0%, carbon 0.02—0.1% and silicon 0.1—2.0%; the balance being titanium apart from incidental impurities

Compl. Specn. 6 Pages

Drg. NIL

Ind. Cl. 851
Int. Cl.⁴: F23B 3/00, 7/00 & 9/00.

169150

FLUIDIZED BED BOILER.

Applicant : DORR-OLIVER INCORPORATED, OF 77 HAVE-MEYER LANE, STAMFORD, CONNECTICUT, UNITED STATES OF AMERICA, A CORPORATION ORGANIZED UNDER THE LAWS OF THE STATE OF DELAWARE, UNITED STATES OF AMERICA.

Inventors : DANIEL FUGENE McCOY, DONALD L GARVER & GEORGE PARVIN HILEMAN.

Application for Patent No. 844/Del/1987, filed on 23rd September, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972). Patent Office Branch, New Delhi-110 005.

Ind. Cl. : 71D
Int. Cl.⁴: B66B 23/08.

169149

WEAR RUNNER FOR EXCAVATING BUCKET AND AN EXCAVATING BUCKET HAVING AT LEAST ONE SUCH WEAR RUNNER.

Applicant : ESCO CORPORATION OF 2141 N.W. 25TH AVENUE, PORTLAND OREGON 97210 UNITED STATES OF AMERICA, A CORPORATION ORGANIZED UNDER THE LAWS OF THE STATE OF OREGON, UNITED STATES OF AMERICA.

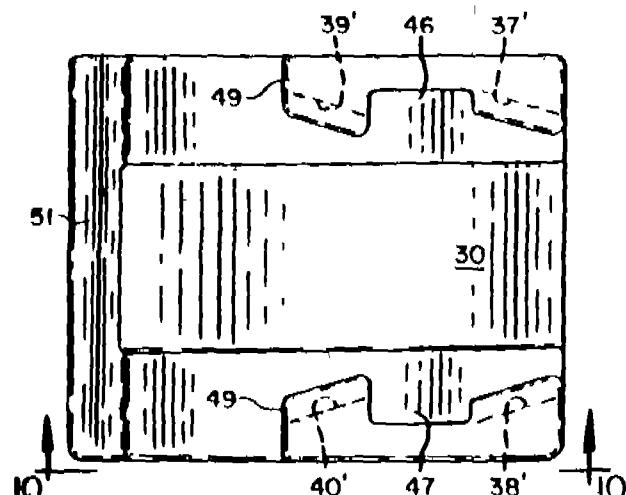
Inventor : JAMES TIMOTHY POTTER.

Application for Patent No. 854/Del/1987, filed on 28th September, 1987

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972). Patent Office Branch, New Delhi-110 005

8 Claims

A wear runner (30) for an excavating bucket (20) which runner is replaceable and comprises a unitary generally rectangular, relatively elongated body having a lower wearable face (41) for engaging the ground and an upper face (42) connectable to the bucket characterised in that said upper face (42) of the wear runner has a longitudinally extending rabbet providing two longitudinally spaced apart pairs of opposed dovetail-shaped mounting means (37', 38', 39', 40'), the surfaces on each said pair of dovetail-shaped mounting means being longitudinally divergent.



Compl. Specn. 15 Pages.

Drg. 2 Sheets.

Compl. Specn. 14 Pages.

Drg. 2 Sheets.

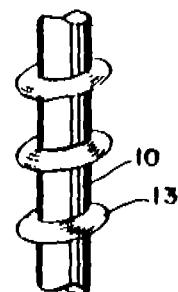


Fig. 4A

Ind. Cl. : 901. [GROUP XXXVI]
Int. Cl.⁴: C03B 37/08.

169151

HEATING OVEN FOR DRYING AND/OR CONSOLIDATING GLASS MATERIAL

Applicant : CORNING GLASS WORKS, OF SULLIVAN PARK FR-212, CORNING NEW YORK, N.Y. 14831, UNITED STATES OF AMERICA.

Inventors : (1) KENNETH ROBERT LANE, (2) DONALD LEE PRUSHA & (3) WILLIAM EMIL SIEBOLD

Application for Patent No. 11/Mas/87, filed on 8th January, 1987

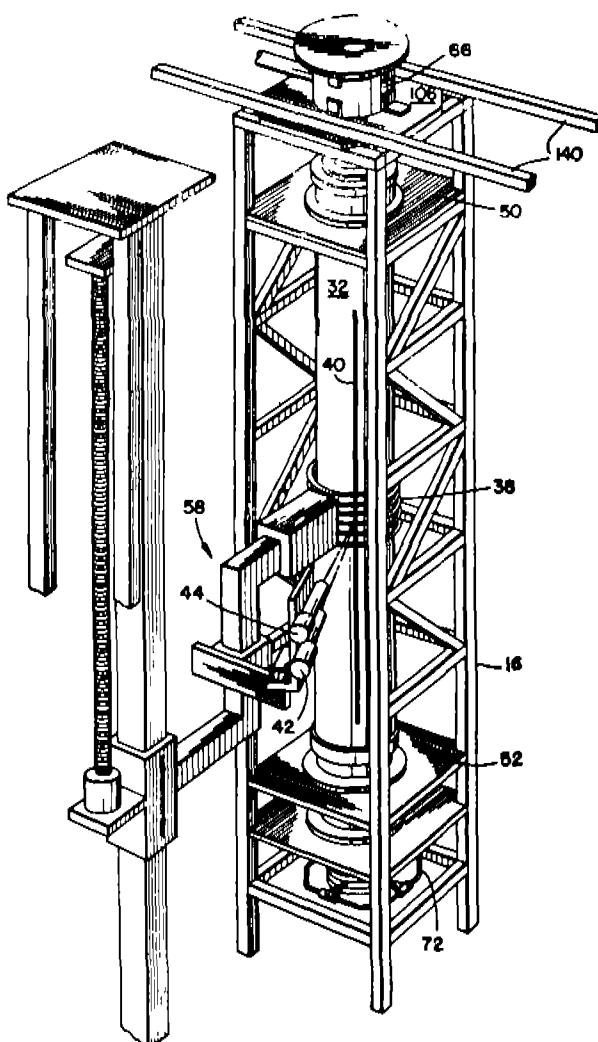
Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Madras.

9 Claims

A heating oven for drying and/or consolidating glass material from which optical waveguide fibers are prepared comprising

- (a) an elongated chamber for receiving the glass material to be processed; and
- (b) means for heating the chamber or selected portions thereof spatially distributed along the length of the chamber, to a predetermined temperature or temperatures.

Wherein the heating means has an elongated susceptor, the longitudinal axis of the susceptor being parallel to the longitudinal axis of the chamber, an induction heating coil, means for moving the induction heating coil along a path parallel to the longitudinal axes of the susceptor and the chamber, and means for energizing the induction heating coil



Ind. Cl. : 9 E. [GROUP—XXXIII(1)]
Int. Cl. : C 22 c 33/08.

169153

Ind. Cl. 17 D—[GROUP-XIV (2)]
Int. Cl. : B 67 D 1/04.

169154

A PROCESS FOR MAKING AN INOCULANT FOR CAST OR DUCTILE IRON.

Applicant : ELKEM METALS COMPANY, A COMPANY ORGANISED AND EXISTING UNDER THE LAWS OF THE STATE OF PENNSYLVANIA U.S.A., OF PARK WEST OFFICE CENTRE CLIFF MINE ROAD, P O BOX 266 PITTSBURG, PENNSYLVANIA 15230, U.S.A.

Inventors : (1) MARY JANE HORNUNG AND (2) EDWARD C. SAUER.

Application for Patent No. 35/Mas/87, filed on 20th January, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Madras

3 Claims

A process for making an inoculant for cast or ductile iron, comprising admixing ferrosilicon and/or copper silicon alloy, a strontium ore and any known source of zirconium titanium or a combination thereof, to provide an inoculant having by weight 15 to 90% silicon, 0.1 to 10% strontium, 0.1 to 15% zirconium and/or 0.1 to 20% titanium.

Compl. Specn. 32 Pages.

Drg. NIL

A CONCENTRATE SUPPLY DEVICE

Applicant : ISOWORTH LIMITED, A COMPANY REGISTERED IN ENGLAND AND OF 1210, LINCOLN ROAD, WERRINGTON, PETFBOROUGH PE4 6ND, ENGLAND

Inventor : ALISTAIR SCOTT

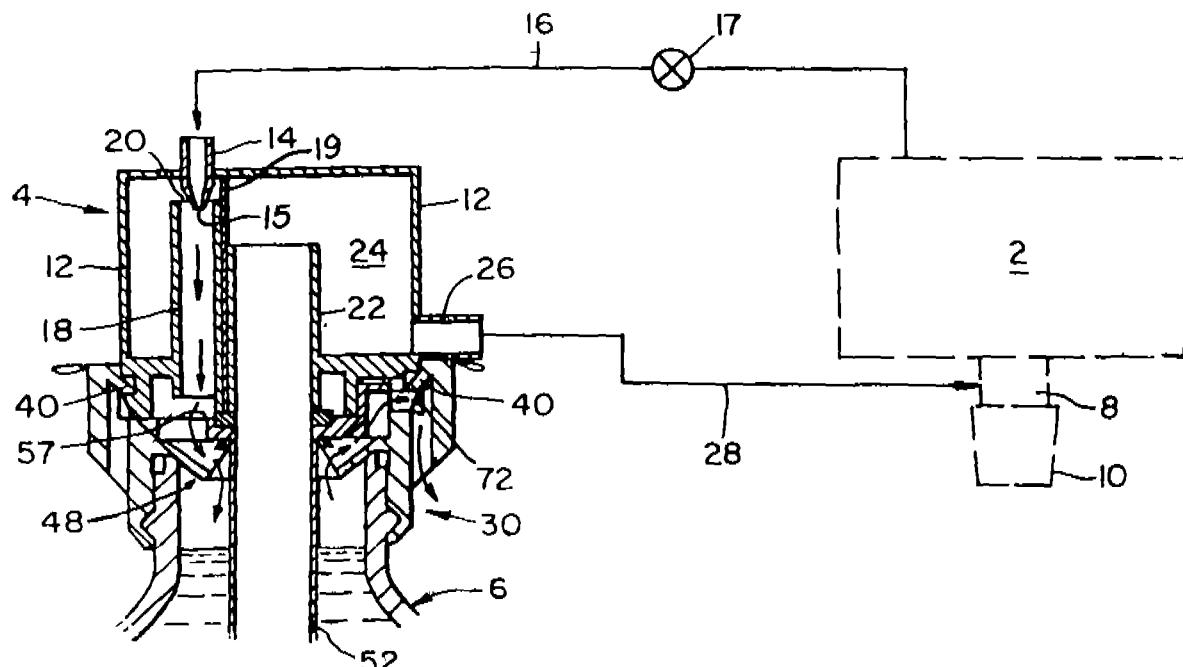
Application for Patent No. 79/Mas/87, filed on 5th February, 1987

Convention date : February 10, 1986; (No. 8603227; United Kingdom)

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Madras.

9 Claims

A concentrate supply device which is operable by gas under pressure and is adapted for coupling to a container for supplying concentrate therefrom to a discharge means of a carbonation apparatus for forming flavoured, carbonated drinks, comprising a housing defining a metering chamber, a venturi operable by said gas under pressure and in communication with said metering chamber, and coupling means for connecting the housing to the container, the said coupling means having an inlet through which concentrate from said container being supplied to said metering chamber upon creation of reduced pressure therein when said venturi is operated, and a passage for conducting gas from said venturi into said container, said metering chamber being connected to a concentrate outlet for the supply of concentrate metered by said metering chamber to the discharge means of the carbonation apparatus



Compl. Specn. 14 Pages.

Drg. 3 Sheets.

Ind. Cl. : 49 E—[GROUP-XV(1)]
Int. Cl.⁴ : A 21 C 3/02.

169155

Inventors : (1) JOHANNES FRENTZEL-BEYME, (2) HEINZ STENMANS.

AN APPARATUS FOR USE WHEN MAKING A SUBSTANTIALLY CIRCULAR DOUGH PRODUCT.

Applicant : RICHFORD HOLDING INC., A PANAMA COMPANY, OF 2 BOULEVARD ROYALE, L2953—LUXEMBOURG, LUXEMBOURG.

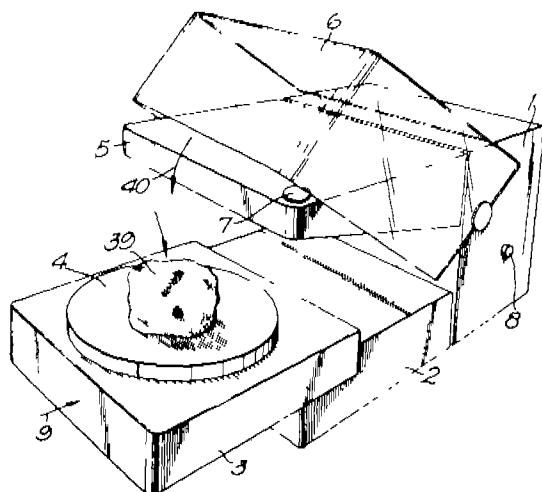
Inventor : PATRICK ARMSTRONG FINLAY.

**Application for Patent No. 84/Mas/87, filed on 6th February,
1987.**

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Madras.

8 Claims

An apparatus for use when making a substantially circular dough product, characterized in that it comprises a turntable defining a planar surface, and conical roller means which cooperates with said turntable, the region of the roller closest to the planar surfaces of the turntable defining, together with the turntable, a rolling line, the turntable being rotatable to permit effective movement between said rolling line and the turntable means to move the roller and turntable from a relative spaced apart position to an operative position with a reduced spacing therebetween for a predetermined operational period of time and to cause the roller and the turntable subsequently to return to the initial spaced apart position.



Compl. Specn. 12 Pages.

Drg. 4 Sheets.

Application for Patent No. 113/Mas/87, filed on 19th February, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Madras.

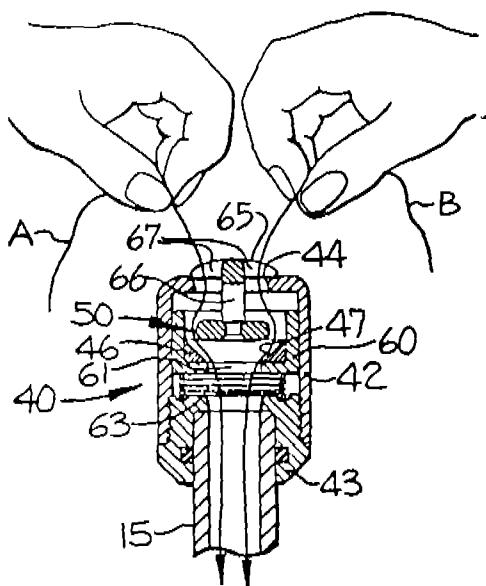
11 Claims

A thread brake mechanism for a spindle assembly of a thread processing machine, particularly a thread entry tube of a two-for-one twister, and characterised by a construction for use with two independent individual threads which may be fed into the spindle assembly at varying tensions and which applies respective braking forces to the individual threads depending upon the respective feeding tension thereof; said thread brake mechanism comprising:

a tubular brake housing has means for attaching said brake mechanism to the spindle assembly of a thread processing machine and defining on the upper end thereof a thread entry aperture aligned with the longitudinal central axis thereof;

a brake ring member positioned inside said brake housing and being aligned with the longitudinal central axis of said brake housing and axially spaced from said thread entry aperture and defining an inside inclined braking surface extending downwardly and inwardly in an axially symmetrical manner over the entire braking surface; and

A disc-shaped brake body member movably positioned inside said brake housing and supported by said brake ring member on said braking surface thereof for axial and radial movement and having a convexly curved outside edge braking surface for cooperating with said braking surface of said brake ring member for receiving the two threads therebetween and applying respective braking forces thereto.



Ind. Cl. : 172-D4—[GROUP-XX]
Int. Cl.⁴ : D 01 H 7/86.

169156

A THREAD BRAKE MECHANISM FOR A SPINDLE ASSEMBLY OF A THREAD PROCESSING MACHINE.

Applicant: PALITEX PROJECT-COMPANY GmbH, OF
WEESERWEG 60, 4150 KREFELD I, FEDERAL REPUBLIC OF
GERMANY, A GERMAN COMPANY.

8-G-227 GL/91

Compl. Specn. 25 Pages.

Drg. 5 Sheets.

Ind. Cl. : 71-D&G—[GROUP-XXVIII(1)]
Int. Cl.⁴ : E 02 F 3/76; 9/00.

169157

Ind. Cl. : 24 E, F [GROUP LV]
Int. Cl.⁴ : B 60 T 11/00.

169158

**AN IMPROVED MOUNTING ARRANGEMENT ADAPTED
FOR SUPPORTING AND STABILIZING A BULLDOZER
BLADE ON A VEHICLE**

Applicant : CATERPILLAR INC., OF 100 N.E. ADAMS
STREET, PEORIA, ILLINOIS 61629-6490, U.S.A., A CORPORA-
TION ORGANIZED AND EXISTING UNDER THE LAWS OF
THE STATE OF DELAWARE, U.S.A.

Inventors : (1) MICHAEL JOHN MURPHY, (2) KENT DWAYNE SMITH.

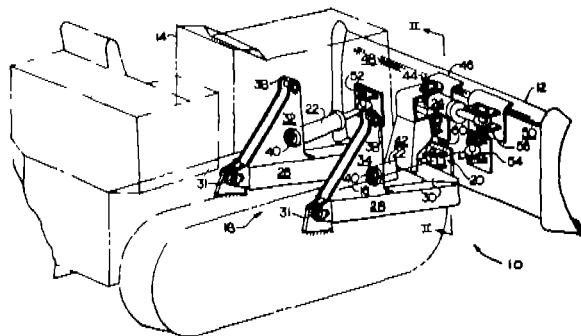
**Application for Patent No. 141/Mas/87, filed on 2nd March,
1987**

Convention date : September 23, 1986; (No. 518848; Canada).

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Madras.

10 Claims

An improved mounting arrangement adapted for supporting and stabilizing a bulldozer blade on a vehicle comprising : a bracket apparatus connected between an intermediate member of a mounting frame and a rear central portion of the bulldozer blade, wherein the said bracket apparatus is vertically spaced from a universal joint connection and has a first bracket assembly secured to one of said intermediate member of the mounting frame and said rear central portion of the bulldozer blade, said first bracket assembly defining a generally transverse slot therein relative to the longitudinal axis of said mounting arrangement, said slot defining a center substantially vertically aligned with the center of motion of the universal joint connection; and a second bracket assembly secured to the other of the intermediate member of the mounting frame and the rear central portion of the bulldozer blade, said second bracket assembly having a freely movable pin assembly attached thereto and disposed in the slot of the first bracket assembly substantially coaxial with the center of said slot when the bulldozer blade is in its non-tilted position, to allow normal pitching of the bulldozer when said bulldozer blade is being tilted.



Compl. Specn. 18 Pages

Drg. 2 Sheets

A WEDGE AND ROLLER BRAKE ACTUATOR

Applicant: LUCAS INDUSTRIES PUBLIC LIMITED COMPANY, A BRITISH COMPANY, OF GREAT KING STREET, BIRMINGHAM-19, ENGLAND.

Inventor : HUGH GRENVILLE MARGETTS

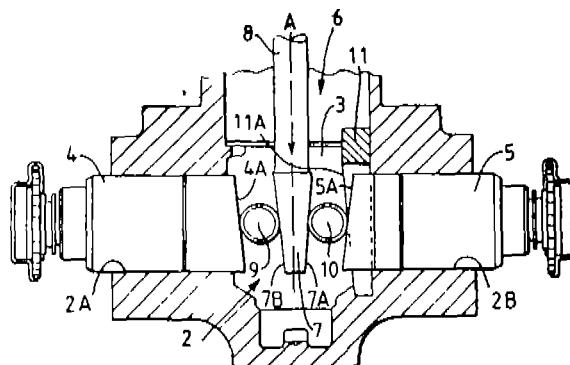
Application for Patent No. 145/Mas/87, filed on 3rd March
1987

Convention dated 5th March, 1986 No. 8605393 (United Kingdom).

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Madras.

18 Claims

A wedge and roller actuator comprising a wedge disposed between opposed tappets, thrust rollers disposed respectively at either side of the wedge to transmit actuating thrust from actuating surfaces of the wedge to actuating surfaces of the tappets, at least one of said thrust rollers being also in force transmitting relationship with a fixed abutment surface in order to transmit to that surface inwardly directed forces arising on the tappet associated with the other roller, and which are directed towards the tappet adjacent said abutment surface.



Compl Specn. 9 Pages.

Drg. 1 Sheet.

Ind. Cl. : 13—A & 179—A [GROUPS—XL(1) & XL(6)]. 169159
Int. Cl.⁴ : B 65 B 51/00; 51/10; 7/00; 7/02

AN APPARATUS FOR FUSING A GATHERED THROAT PORTION OF A PLASTIC BAG.

Applicant: PACKAGING AUTOMATION MACHINERY CO. LTD., A CANADIAN COMPANY, OF 8350 MOUNTAIN SIGHTS, MONTREAL, QUEBEC, CANADA—H4P 2C2.

Inventors : (1) ARNOLD LIPES & (2) GEORGE SOGA.

Application No. 427/Mas/87, filed on 9th June, 1987.

Convention date, 22nd July 1986; (No. 514, 377; Canada.)

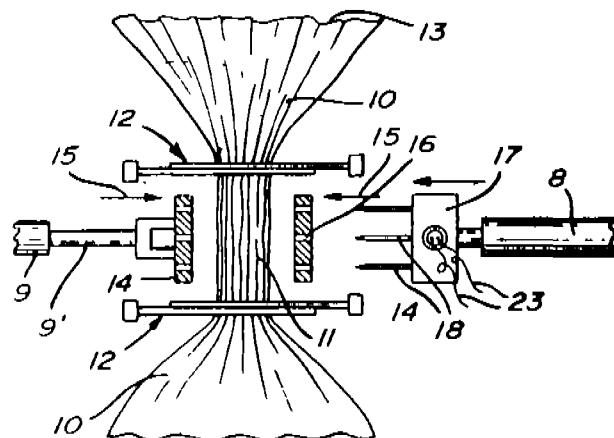
Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

Ind. Cl. : 69-D [GROUPS—LIX(1)].
Int. Cl.⁴ : H 01 H 51/00.

169160

9 Claims

An apparatus for fusing a gathered throat portion of a plastic bag, said apparatus comprising means for gathering in a random fashion a circumferential portion of a plastic bag adjacent an end opening thereof to form a gathered throat portion, pressing means for pressing together randomly disposed plastic material in said gathered throat portion, said pressing means having two or more spaced apart rows of needle receiving bores disposed adjacent one another in differing planes, and fusing means having two or more rows of heat conductive needles movable in and out of said bores and across said plastic material in said gathered throat portion to fuse plastic material of adjacent randomly disposed wall portions of said thermoplastic material in the area of said penetrating needles and in adjacent spaced planes.



Compl. Specn. 12 Pages.

Drg. 2 Sheets.

AN ELECTROMAGNETIC SWITCH IN PARTICULAR FOR STARTING DEVICES OF INTERNAL COMBUSTION ENGINES.

Applicant: ROBERT BOSCH GmbH, A GERMAN COMPANY, OF POSTFACH 50, 7000 STUTTGART 1, FEDERAL REPUBLIC OF GERMANY.

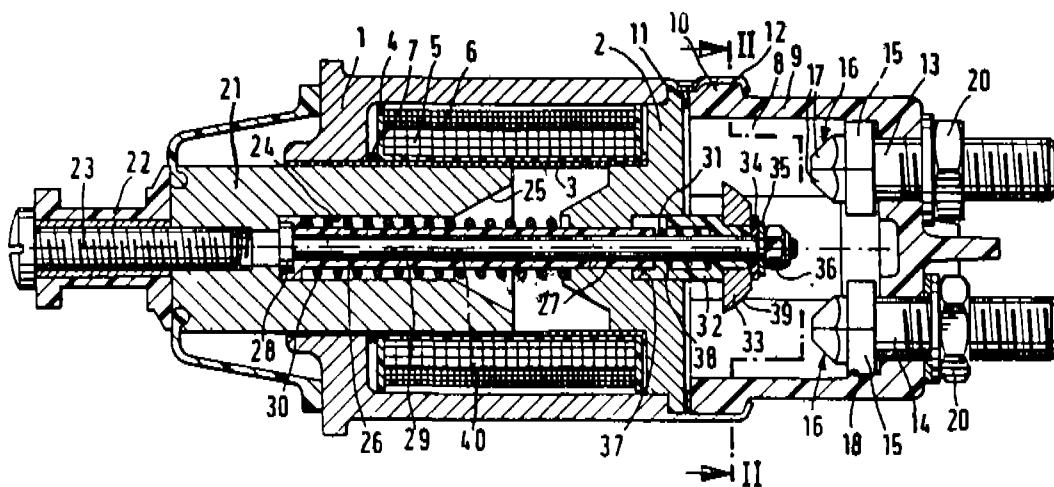
Inventor: KARL-HEINZ BOGNER.

Application No. 544/Mas/87, filed on 29th July, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

10 Claims

An electromagnetic switch, in particular for starting devices of internal combustion engines, comprising a housing in which a winding support with an excitation coil is mounted on a guide bush and in which a magnet armature is guided, a magnetic core disposed on one end face of the housing, against which core the magnet armature can be drawn against the force of a return spring and through which projects an actuating pin which is displaceable together with the magnet armature, carries a contact bridge support with a contact bridge, and extends into a switching chamber which is covered by a cap, and in which are disposed two main current contacts which project through the cap into the switching chamber and lie opposite the contact bridge, in which each of the main current contacts have at least one contact portion inclined at an angle of between 25° and 60° with respect to the longitudinal axis of the switch and has as a contact surface at least one rounded portion whose longitudinal axis is inclined with respect to the longitudinal axis of the switch and lies in a plane which extends radially through the longitudinal axis of the switch, and the contact bridge is circular and has a contact surface which is part of a sphere whose centre of curvature lies on the longitudinal axis of the switch and whose radius of curvature is smaller than that of the rounded portion of each of the main current contacts.



Compl. Specn 18 Pages.

Drg. 2 Sheets.

Ind. Cl. : 128B & G [GROUP—XIX (2)].
Int. Cl. : C 08 F 283/00; C 08 G 63/00.

A THERMOPLASTIC POLYMERIC COMPOSITION USEFUL IN THE PREPARATION OF ORTHOPEDIC/ORTHOTIC SPLINTS.

Applicant: UNION CARBIDE CORPORATION, A CORPORATION ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF NEW YORK, U.S.A., OF OLD RIDGEBURY ROAD, DANBURY, STATE OF CONNECTICUT 06817 UNITED STATES OF AMERICA.

Inventor: LLOYD MAHLON ROBESON.

Application No. 2/Mas/87, filed on 2nd January, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

11 Claims

A thermoplastic polymeric composition useful in the preparation of orthopedic/orthotic splints comprised of a blend of:

- (a) from 90 to 65 weight percent of an aliphatic polyester having a crystalline melting point of from 50—70°C.
- (b) from 10 to 35 weight percent of a thermoplastic polyurethane, said polyurethane comprising upto 65 weight percent of a hard block segment formed by the reaction of a diisocyanate and an aliphatic polyol, and at least 35 weight percent of a soft block segment comprising at least one of a polyether or a polyester polyol.

Compl. Specn. 31 Pages.

Drg. 1 Sheet.

Ind. Cl. : 32-F-3_(e)—[GROUP-IX(1)].
Int. Cl. : C 12 G 3/12.

169162

A METHOD OF PRODUCING POTABLE SPIRIT.

Applicant: UNITED DISTILLERS PLC, A BRITISH COMPANY, OF 33, ELLERSLEY ROAD, EDINBURGH EH12 6JW, SCOTLAND.

Inventor: ALBERT TURNER YOUNG.

Application No. 4/Mas/1987, filed on 5th January, 1987.

Convention date January 17, 1986; (No. 86 01082; Great Britain.)

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

3 Claims

A method of producing water free potable spirit comprises removing water in a known manner from a fermented wash containing ethanol, water and congeners to obtain a mixture of ethanol, water and congeners having at least 80% by weight ethanol, either treating the same with liquid carbon dioxide or passing the same through permeable membrane to obtain substantially water free mixture of ethanol and congeners and fractionally distilling the said substantially water free mixture of ethanol and congeners to obtain a fraction of water free potable spirit.

Compl. Specn. 14 Pages.

Drg. 2 Sheets.

Ind. Cl. : 102-D & 195-E—[GROUPS-XXIX(1)
& XXIX(3)].
Int. Cl. : G 01 F 1/56.

169163

A METERING HEAD.

Applicant: SOCIETE DES PRODUITS NESTLE S.A., OF CASE POSTALE 353, 1800 VEVEY, SWITZERLAND, A SWISS BODY CORPORATE.

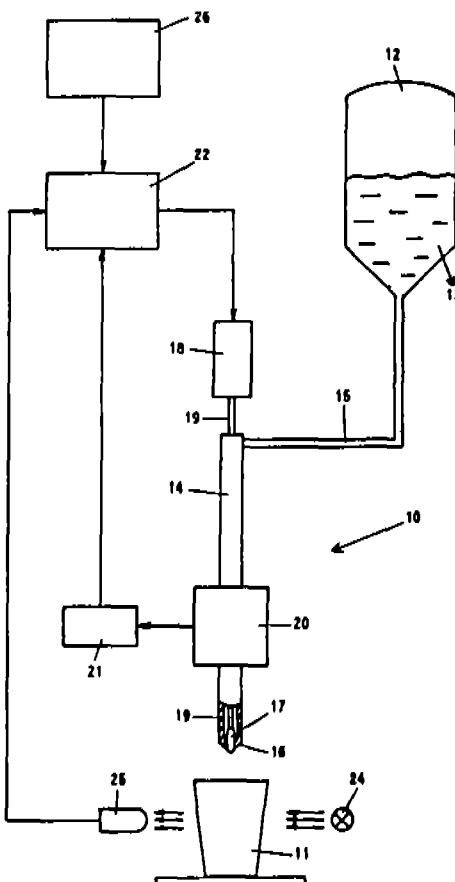
Inventors . (1) RUDOLF SCHMIED, (2) PETER V. HAFNER.

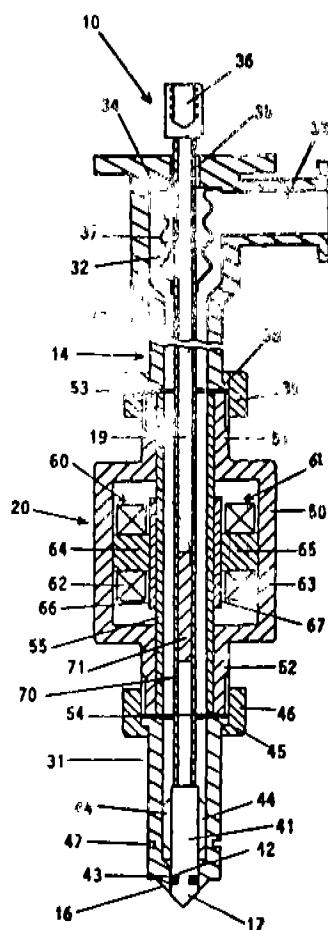
Application No. 10/Mas/1987, filed on 7th January, 1987

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

10 Claims

A metering head comprising an outlet opening for filling containers with a fluid product flowing through a pipe line wherein the metering head has a valve for controlling the flow of the product in the pipe line, a drive unit for actuating the valve by means of a mechanically displaceable actuating rod extending to the valve and a magnetically inductive flow meter having a measuring tube for measuring fluid product flow for enabling control of the valve, a pipe line having a magnetically inductive flow meter being positioned and aligned in the pipe line between a drive unit associated with the pipe line and the valve positioned in the pipe line and having an actuating rod being connected with the drive unit extending into the pipe line axially through a measuring tube of the magnetically inductive flow meter and extending to and being connected with the valve for actuating the valve to influence fluid product flow.





Compl. Specn. 19 Pages.

Drg. 3 Sheets.

Ind. Cl. : 50 A [GROUP VII (I)].

Int. Cl. : B 65 D 90/06.

169164

A VACUUM INSULATED CONTAINER.

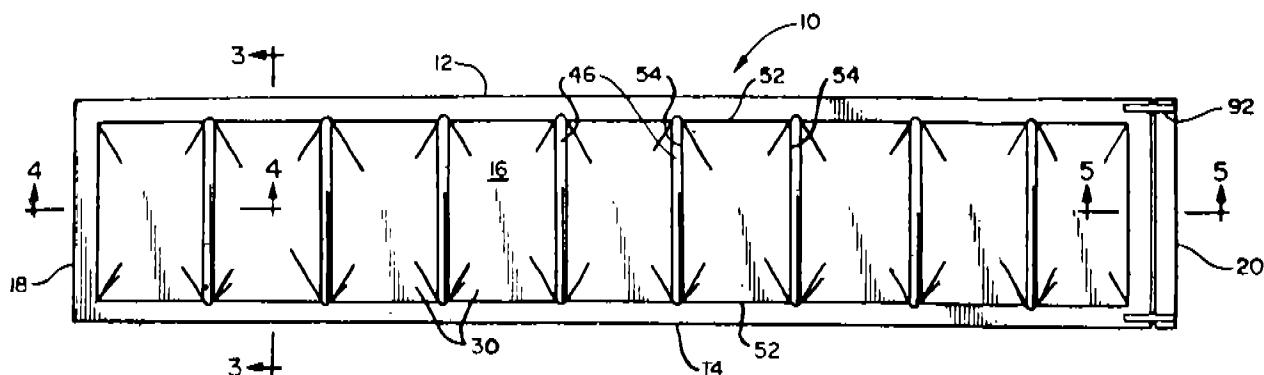
Applicant: DANBY DEVELOPMENTS INC., OF 400-1140
WEST PENDER STREET, VANCOUVER, BRITISH
COLUMBIA, CANADA V6E 4G1, A CANADIAN COMPANY.

Inventor: IAN R. MCALLISTER.

Application No. 17/Mas/1987, filed on 13th January, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents
Rules, 1972), Patent Office, Madras Branch.**11 Claims****A vacuum insulated container comprising :**

- (a) a fluid tight outer structure having first wall means adapted to be exposed to ambient pressure;
- (b) a fluid tight inner structure having a second inner wall means spaced inwardly from said first wall means and defining an area for containing the product;
- (c) said first and second wall means defining therebetween a substantially evacuated insulating area to insulate said area for containing the product from ambient heat transfer;
- (d) said outer structure comprising a plurality of wall sections, each of said wall sections comprising :
 - (1) a perimeter frame defining a wall section area;
 - (2) a planar membrane section extending across said wall section area and having a main central portion and a perimeter portion attached to said perimeter frame;
 - (3) the main central portion of the membrane section having a configuration, relative to said perimeter frame, of an inwardly curved plane, such that ambient pressure acting against an outer surface of said membrane section causes said membrane section to react substantially entirely in tension to withstand said ambient pressure.



Compl. Specn. 34 Pages.

Drg. 5 Sheets.

Ind Cl 32 E [GROUP IX (1)]
Int. Cl⁴ C 08 F 214/06

A PROCESS OF MAKING A VINYL CHLORIDE COPOLYMER.

Applicant ATOCHEM, A FRENCH BODY CORPORATE, OF LA DEFENSE 10 4 & 8 COURS MICHELET, 92800 PUTEAUX, FRANCE

Inventors (1) JACQUES GROSSOLEIL, (2) PATRICK K KAPPLER, (3) NICOLAS KRANTZ

Application No 34/Mas/1987, filed on 20th January, 1987

Appropriate Office for Opposition Proceedings (Rule 4 Patents Rules, 1972), Patent Office, Madras Branch

10 Claims

A process of making a vinyl chloride copolymer of higher viscosity index without increasing corresponding polymerization temperature comprising polymerizing by free-radical polymerization technique in a manner known *per se* from 99 to 99.99% in moles, of a vinyl chloride monomer composition (as hereinbefore defined) and from 0.01 to 1%, in moles, of at least one alkadiene of the formula



in which x is a whole number from 1 to 12

Compl Specn. 21 Pages

Drg NIL

169165

Ind Cl 85-H [GROUP XXXI]
Int. Cl⁴ C 21 B 13/08

169166

AN IMPROVED ROTARY KILN FOR PRODUCING SPONGE IRON

Applicant SPONGE IRON INDIA LIMITED, OF KHANJ BHAVAN, 6TH FLOOR, 10-3-311/A, CASTLE HILLS, MASAB TANK HYDERABAD-500 028, AN UNDERTAKING OF THE GOVT OF INDIA AND THE GOVT OF ANDHRA PRADESH

Inventors (1) SATYANARAYANA VANGALA, (2) KRISHNA PRAKASH PATNAIK, (3) VARTHAKAVI LAKSHMI NARASIMHA MURTHY

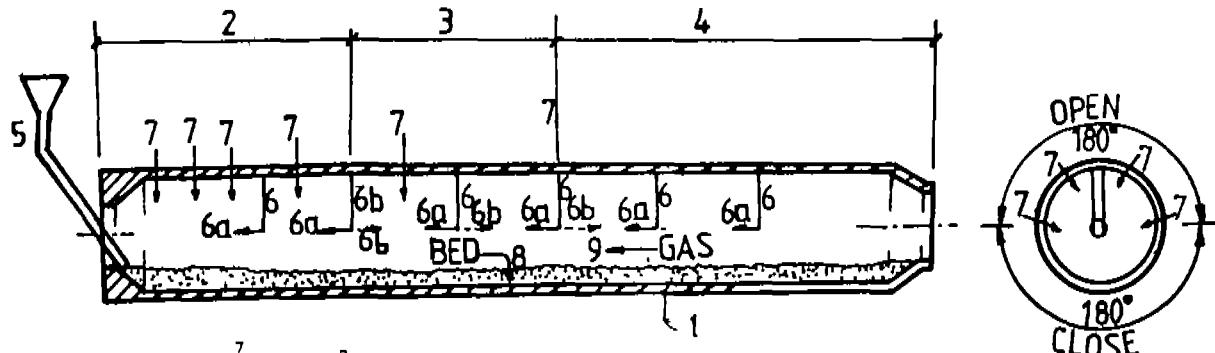
Application and Provisional Specification No 37/Mas/87, filed on 20th Jaunuary, 1987

Complete Specification left April 19, 1988

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch

2 Claims

An improved rotary kiln for producing sponge iron comprising a preheating zone (2), a central zone (3) for partial reduction and reduction zone (4) with one or more air inlets (7'), the improvement comprising the air inlets to the central zone being provided with air tubes (Fig 2b) having an innerdividing wall (5) with nozzles (4') and valves (6) for regulating flow of air through the two compartments of the air tubes, wherein the air is passed axially in the central zone in counter current, co-current or in both direction with respect to the flow of charge material



Ind Cl 6-B₃ [GROUP XLVII(1)]
Int. Cl⁴ B 01 D 5/00 B 03 C 3/00 & 3/01

169167

APPARATUS FOR OBTAINING HOT GAS FLOW FREE OF CONTAMINANTS

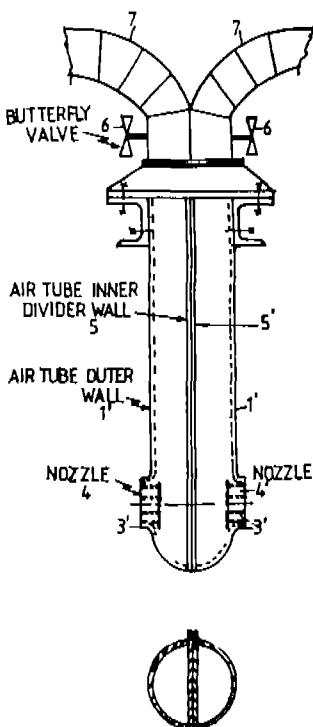
Applicant FLAKT AKTIEBOLAG, OF SICKLA ALLF 13 NACKA, SWEDEN, A SWEDISH COMPANY

Inventor BJORN SVENSSON

Application No 83/Mas/87, filed on 6th February, 1987

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch

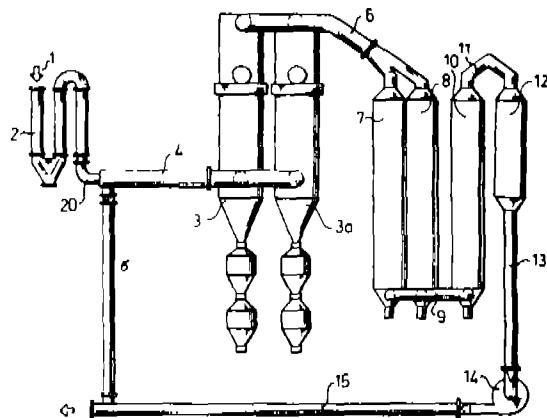
9 Claims



Provn Specn 12 Pages
Compl Specn 15 Pages

Drg. 2 Sheets

An apparatus for obtaining hot gas flow free of contaminants such as dust particles and gaseous condensable contaminants, characterized in that it comprises a first heat exchanger, in which the process gas is cooled in a first stage to a temperature which lies close to liquifying temperature of the gaseous contaminants, a mixer, in which the gas is further cooled, a first dust separator, to collect the condensed contaminants being bound to said solid dust particles by adsorption and/or absorption, to form liquid laden particles



Compl. Specn. 25 Pages.

Drg. 1 Sheet

Ind. Cl. : 201 C [GROUP II (4)].
Int. Cl.⁴ : C 02 F 1/42.

169168

A METHOD FOR PURIFYING TOXIC EFFLUENT IN A PROCESS OF PRODUCING IN-LINE DYED ACRYLIC FIBRES**Applicant :** ENICHEM FIBRE S.P.A. A COMPANY ORGANIZED UNDER LAW OF THE ITALIAN REPUBLIC OF VIA RUGGERO SETTIMO, 55-PALERMO, ITALY**Inventors :** (1) FRANCO COGNIGNI, (2) ETTORE SCIOLLA

Application No. 97/Mas/87, filed on 13th February, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

2 Claims

A method of purifying toxic effluent in a process of producing in-line dyed acrylic fibres by treating the toxic effluent having a concentration of cationic dyestuff not exceeding 40 gms/litre on a fixed bed of a solid acidic ion-exchange resin carrying free or sulfated sulfophonic acid groups or free carboxylic acid groups bonded to a styrene matrix cross-linked with divinylbenzene or an acrylic polymer for a duration of 6 to 90 seconds with a linear flow rate of 2 to 30 metres per hour and at a temperature of 15°C to 50°C

Compl. Specn. 10 Pages.

Drg. NIL.

Ind. Cl. : 69-N [GROUP-LIX (1)].
Int. Cl.⁴ : H 01 H 33/00.

169169

ARC INTERRUPTER.**Applicant :** NORTHERN ENGINEERING INDUSTRIES PLC., NEI HOUSE, REGENT CENTRE, NEWCASTLE UPON TYNE, NE3 3SB, ENGLAND, A BRITISH COMPANY.**Inventor :** JAMES SPOONER

Application No. 122/Mas/87, filed on 23rd February, 1987

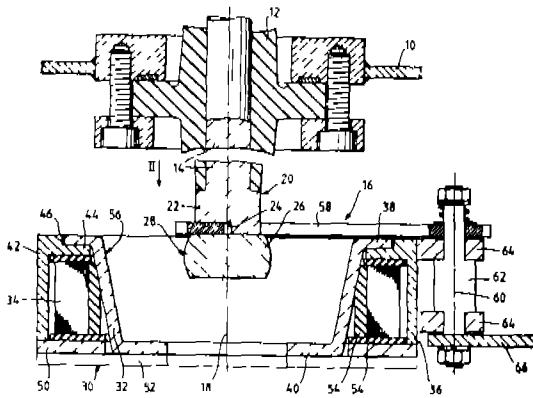
Convention date : March 25, 1986; (86 07399; United Kingdom).

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

7 Claims

An arc interrupter comprising fixed and movable contacts, a fixed electrode having at least one flange divided by radial slots extending from the outer periphery thereof through at least a substantial part of the width of said flange, first and second coaxial arcing surfaces

separated by an annular gap provided, respectively, by one of said contacts and said electrode, said first arcing surface being closer to the common axis of said arcing surfaces than said second arcing surface, and an arc-driving coil surrounding said electrode, said coil being coaxial with said surfaces and being electrically connected at one end to said electrode whereby said coil is included in series with said arcing surfaces in an arc current path at least during a later part of the opening of a main current path formed by said contacts in a make position.



Compl. Specn. 12 Pages.

Drg. 2 Sheets

Ind. Cl. : 160-A [GROUP LII (3)].
Int. Cl.⁴ : B 62 C, 1/00, B 60 Q 1/04.

169170

GEAR DYNAMO LIGHTS FOR BULLOCK CARTS.**Applicant & Inventor :** E. G. CHARLES, S/O. E. P. SAMUEL (RETD. TAHSILDAR, BADVEL, CDP), C/o. B. DEVASAHYAM, PLOT NO. 713 DEFENCE COLONY, SAINIKPURI, SECUNDERABAD, A. P.

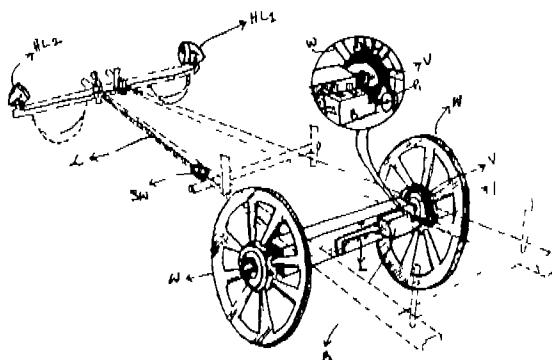
Application and Provisional Specification No 226/Mas/87, filed on 27th March, 1987

Complete Specification left December 14, 1987

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

3 Claims

A bullock cart comprising a platform beam, a main wheel support beam and a plurality of wheels wherein a gear box is fixed underneath the said platform beam on the said main wheel support beam, one end of said gear box being connected to the said wheels through a 'V' belt and pulley, the other end being connected to a dynamo, a lighting means connected to the said dynamo through a switch and a clutch for engaging and disengaging the said dynamo.



Provn. Specn. 2 Pages.

Compl. Specn. 12 Pages.

Drg. 3 Sheets (each of size 33.00 cms. by 41.00)

REGISTRATION OF DESIGNS

The following designs have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in each entry is the date of the registration of the design included in the entry.

- | | | | |
|---------|--|---|---|
| Class 1 | No. 162758. Associated Engineers, 5A, D.D.A. Sheds, Okhla Industrial Area, Phase II, New Delhi-110020, India, Indian Partnership Firm. "Charge Dissipation Machine". December 12, 1990. | Class 3 | No. 163022. Eagle Flask Industries Ltd., of Talegaon-410507, Dist : Pune, Maharashtra, India, Indian Company. "Tray with foldable stand". March 14, 1991. |
| Class 1 | Nos. 162835 & 162836. Hi-Pack Mass Transfer Products of C-28, Ghatkopar Industrial Estate, L.B.S. Marg, Ghatkopar, Bombay-400086, Maharashtra, India, Indian Partnership Firm. "Tower Packing Ring". January 15, 1991. | Class 3 | No. 163152. Boys Town Society, Indian Society of Boys Town Crafts, Tirumangalam, Madurai, Dist : T.N., India, Pin Code No. 626706. "Massaging Device". April 16, 1991. |
| Class 1 | No. 162838. Medica Instrument Mfg. Co. of 116, Vasan Udyog Bhavan, Senapati Bapat Marg, Opp. Sai Service, Bombay-400013, Maharashtra, India, Indian Partnership Firm. "Distillation Apparatus". January 15, 1991. | Class 3 | No. 163316. MRF Limited, 826, Anna Road, Tarapore Towers, Madras-600002, T.N., India. "Precured Rubber Tread for Tyres". June 13, 1991. |
| Class 1 | No. 162854. Pacco Industrial Corporation, D-31, Okhla Industrial Area, Phase-I, New Delhi-110020, India, an Indian Company. "Automizer". January 18, 1991. | Class 5 | No. 162906. The Assam Company Ltd. of 52, Chowinghee Road, Calcutta-700071, W.B., India, Indian Company. "Pouch". February 14, 1991. |
| Class 3 | Nos. 162527 & 162528. Colgate-Palmolive Company, a Delaware Corp. of 300 Park Avenue, New York, New York-10022, U.S.A. "Toothbrush". September 24, 1990. | Class 8 | Nos. 163091 to 163094. (Mrs.) Elizabeth Maynard-Taylor, British Nationality and (Mrs.) Xandra Gamazo-Hohenlobe, of Spanish Nationality both of 3rd Floor, 33 Lennox Gardens, London SW1, U.K. "Floor Covering". March 27, 1991. |
| Class 3 | No. 162797. Universal Luggage Manufacturing Company Limited, Indian Company of B-4, MIDC, Industrial Area, Waluj 431133, Dist : Aurangabad, Maharashtra, India. "Briefcase". December 27, 1990. | Class 10 | No. 162859. Liberty Footwear Co., Liberty House Extn., Karnal, Haryana, India, Indian Partnership Firm. "Shoe". January 23, 1991. |
| Class 3 | No. 162803. Em Cee Cee Sports Agencies (P) Ltd. of Jonex House, Sodal Road, Jalandhar-144004, Punjab, India, Indian Company. "Roller Skates". January 3, 1991. | Class 12 | No. 163192. Britannia Industries Ltd. of 5/1A, Hungerford Street, Calcutta-700017, W.B. India, Indian Company. "Biscuits". April 30, 1991. |
| Class 3 | No. 162804. Em Cee Cee Sports Agencies (P) Ltd. of Jonex House, Sodal Road, Jalandhar-144004, Punjab, India, Indian Company. "Skate Board". January 3, 1991. | | <i>Copyright extended for the 2nd period of five years</i> |
| Class 3 | No. 162827. Universal Luggage Manufacturing Co. Ltd. Indian Co., B-4, MIDC, Industrial Area, Waluj-431133, Distt. Aurangabad, Maharashtra, India. "Briefcase". January 10, 1991. | Nos. 157162 and 156194 | Class 1. |
| Class 3 | No. 162872. Jagatjit Industries Ltd., an Indian Company, Ashoka Estate, 24-Barakhamba Road, New Delhi-110001, India. "Bottle". January 25, 1991. | Nos. 159346, 162757, 157327, 157328, 160434, 157071, 157183, 161537, 157347, 157348, 157305, 157539 | Class 3. |
| Class 3 | No. 162905. The Assam Company Ltd. of 52, Chowinghee Road, Calcutta-700071, W.B., India, Indian Company. "Pouch". February 14, 1991. | No. 162143 | Class 12. |
| Class 3 | No. 162945. Walambia Industries, Gogate Wadi, Off : Aarey Road, Goregaon (W), Bombay-63, Maharashtra, India, Indian Partnership Firm. "Flask". February 27, 1991. | | <i>Copyright extended for the 3rd period of five years</i> |
| | | Nos. 157162, 151335, 151093 to 151097 | Class 1. |
| | | Nos. 162757, 160434 & 151417 | Class 3. |

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